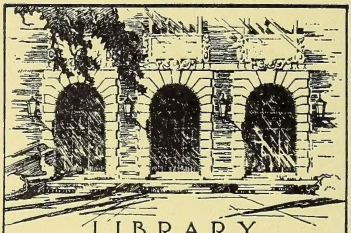

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PRESIDENT'S OFFICE.

PROSPECTUS

Views 1910-11

St. Mary's Institute

Dayton, Ohio

1910-1911

UNIVERSITY OF ILLINOIS LIBRARY

FIFTY-NINTH YEAR

SERIES XXI NUMBER 3

St. Mary's Institute

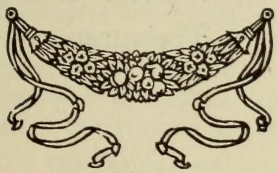
UNIVERSITY OF ILLINO

DAYTON, OHIO

PRESIDENT'S OFFICE

A Boarding and Day School for
Young Men and Boys

Established in 1850 by The Society of Mary



Courses of Studies

I. COLLEGIATE { CLASSICAL / SCIENTIFIC
II. HIGH SCHOOL
III. BUSINESS
IV. PREPARATORY

REV. BERNARD P. O'REILLY, S. M.
President

BROTHER EDWARD GORMAN, S. M.
Treasurer

ST. MARY'S INSTITUTE

DAYTON, OHIO

GENERAL STATEMENT

St. Mary's Institute is a boarding and day-college for young men and boys, under the direction of the Society of Mary. It was incorporated in 1878, and empowered to confer degrees by an act of the General Assembly of the State of Ohio.

The Institute is situated on an eminence in South Park, within the southern limits of the city of Dayton, and commands an extensive view of the surrounding country. Visitors arriving at the Union Depot can take an Oakwood electric car going south at the corner of Main and Fifth streets, and proceed directly to the Institute. The location of the Institute, besides being remarkably picturesque, is very healthful, and affords exceptional facilities for athletic sports in all seasons.

INSTRUCTIONS

Departments

The academic organization of the Institute provides elementary and advanced instruction. Beginning with the rudiments of knowledge, the pupil is led through a series of regularly graded classes, to the completion of a comprehensive course of studies in Literature, Science and Business.

There are four distinct Departments of Instruction —the Preparatory, the High School, the Collegiate, and the Commercial or Business Course. The studies in all departments excepting the Collegiate Department are

not elective, but prescribed, constituting a complete and well adjusted system.

Preparatory Department

The Preparatory Department comprises the Grammar Classes, which are designed to provide a sound elementary training in Christian Doctrine, Reading, Writing, Grammar, Arithmetic, History of the United States, Geography, Drawing and Polite Deportment. The completion of the Preparatory Course, or an eight years' course in a parochial or public school, is required for entrance into the High School Department. For detailed account of studies see for reference the Program of Studies.

High School Department

The course of study in the High School Department extends through four years, and is equivalent to the usual High School course given in American High Schools. It provides a systematic instruction in Christian Doctrine, English Composition, Rhetoric, Literature, English Classics, Latin, a modern language (German, French, or Spanish), Algebra, Geometry, Physical Geography, Physiology, Botany, Zoology, Chemistry, Physics, Civics, Ancient, Mediaeval and Modern History, and Elocution. (For a detailed account of the courses, see for reference the Program of Studies.) A certificate of graduation from the High School Department, or its equivalent, is required for entrance into the Freshman Class of the College.

Collegiate Department

The Collegiate Department purposes to offer to the student the time and opportunity to further cultivate and to bring to maturity the qualities of mind and heart and will that have been nourished to great extent in the Academic or High School Department. To attain this aim a greater latitude is permitted in the selection

of studies. The studies of the Collegiate Department are divided into three groups, leading to the degrees Bachelor of Arts, Bachelor of Letters, and Bachelor of Science. The selection of studies is made with the advice and in consultation with members of the faculty designated for this purpose, and with the approval of the Prefect of Studies. Christian Doctrine, Philosophy and English are considered fundamental studies for all degrees. Latin and Greek are characteristic studies for students wishing to obtain the degree of Bachelor of Arts. Latin, History and Modern Languages are characteristic studies for candidates aspiring to the degree of Bachelor of Letters. The Sciences, Mathematics and Physics, or Chemistry, or Biology, are characteristic studies for the degree Bachelor of Science. In addition to this there is granted more or less selection in each group, especially in the Senior Year. For a detailed account of studies offered in the Collegiate Department see for reference the Program of Studies.

Commercial or Business Course

The Commercial or Business Course is intended for those who cannot command the time, or have not the inclination for a thorough High School or Collegiate training. While the curriculum does not develop the mental faculties so fully and so harmoniously as the more thorough and systematic courses in the classics and sciences offered by the Collegiate Department, nevertheless it supplies all requirements of a good business education. The curriculum comprises the study of Religion, a thorough course in English, including Grammar, Rhetoric, Literature, English and American Classics, Business Writing, Composition, General History, Business Arithmetic, Bookkeeping, Commercial Law, Commercial Geography, Phonography, Typewriting and Elocution. The course lasts two years, and is open to Students of the Institute who possess the necessary preliminary instruction and to

applicants from other schools, who will be required to pass a satisfactory examination. For a detailed account of studies refer to the Program of Studies.

Session

The academic year consists of only one session, beginning in the first week of September, on the date specified on page three (3) and closing in the latter part of June.

It is very desirable that all students enter on the first day of the session; however, applicants are received at any time during the academic year and charged for the remainder of the session.

Candidates for admission are required to present testimonials of good moral conduct.

Rank

In the Preparatory and High School Departments the rank of each student is determined by daily marks, weekly competition in each branch of study, and half-yearly examinations. A record of the standing of each student in scholarship and conduct is kept in the registers of the Institute, and a copy is sent to the parents and guardians at the end of each month.

In the Collegiate Department there will be written tests at least once a week, or at least once every two weeks, according to the nature of the subject, supplemented by oral recitations, at the discretion of the professors.

Bi-monthly records of these tests and written work (tasks) will be kept by the professors.

The monthly standing of the students will be publicly proclaimed at the beginning of the month.

After every semester there will be written examinations on the program of the last half-year, supplemented by oral examinations, if demanded by the nature of the subject.

An average of 70% for the written work, written

tests and the semester examinations will be required to receive credit for any study.

Attendance at the courses will be strictly enforced.

Medals Promotions

Medals and honors for scholarship and conduct are awarded at the annual commencement and published in the annual catalogue.

The medals and honors for scholarship are decided by the weekly competitions.

The medals for general excellence and honors for scholarship are decided by written tests, semester examinations, and weekly marks. Honors for single studies are determined by competition only. A gold medal for oratory, to be decided in public contest, is given in the Collegiate Department. All students of the College are eligible to compete. A gold medal for elocution, also to be decided in public contest, is given in the High School Department. All students of the High School and Commercial Courses are eligible to compete.

The Alumni Association is the perpetual donor of a gold medal to be awarded to a member of the graduating class for proficiency in English composition, both prose and verse. The competitions for the medal are held in December and March, and comprise each time an essay and a piece of verse. Students who have distinguished themselves in composition during the year, and who have been active contributors to the Exponent, are eligible to compete.

Pupils who enter the Institute after January 1st cannot compete for awards.

The boarding students whose average monthly standing in conduct and application is 95 per cent., receive a certificate of good conduct at the annual commencement. If, at the time of graduation, a student holds four of these certificates, two of which have been mer-

ited during the years immediately preceding graduation, he is entitled to a medal for good conduct.

The annual promotions are decided by semester examinations, written tests and monthly class marks.

No student will be permitted to take part in athletic contests if he has not attained an average of 70 per cent. for his studies.

Degrees and Diplomas

Upon the successful completion of sixty-six points, and the recommendation of the faculty, the Board of Trustees will confer the Degree of Bachelor of Arts, or Bachelor of Letters, or Bachelor of Science.

These degrees will be conferred according to the candidate's scholarship with the mention *summa cum laude*, or *magna cum laude*, or *cum laude*.

A diploma is awarded to students who have completed either the High School or the Commercial Course and have passed satisfactory examination.

Libraries

Besides the Institute library, there is a circulating library in the study hall of each division of boarding pupils.

DISCIPLINE

Aims and Methods

The sole object of the Institute is to impart to boys and young men a thoroughly Catholic education. Its government is designed to continue the family life. In order to secure the regularity and assiduity that are indispensable to the success of any educational work, the pupils are uniformly held to strict obedience, diligent application, and blameless conduct. The discipline is conservative in character, and designed to train the pupils to habits of self-control and gentlemanly conduct. The manner of enforcing the regulations is firm, yet mild and parental, and appeals chiefly to the pupil's conscience and sense of honor. Convinced of

the insufficiency of merely human means to insure the true education of mind and will and heart, the authorities of the Institute place their chief reliance for the success of their educational work on the influence of religious principles and practices. Hence, the doctrine and precepts of the Catholic religion are taught in all classes, and the exercises of religion hold a prominent place among the daily recurring events of school life.

Regulations

The boarding students form four distinct division—the First, the Second, the Third, and the Fourth. Each division has its own study hall, playgrounds and club room.

The correspondence of the students is controlled by the authorities.

No printed matter is allowed to circulate among the students until it has been examined and approved.

The students are not allowed to leave the grounds without a written permit.

Leave of absence is granted for one day, *on the last Sunday of each month,* to those among the boarding students whose marks for class work and conduct during the preceding month are satisfactory, and whose parents or relatives live in the city of Dayton.

The weekly holiday is Thursday.

Sunday and Thursday are the most convenient days of the week for visiting students.

A short vacation is granted during the Christmas season and at Easter.

No students are kept during the summer vacation.

It is of the utmost importance that the students be present every day of the academic session. Hence, they should be prompt to return at the close of the vacations.

The ordinary causes for dismissal are insubordination and bad conduct.

DAY SCHOLARS

During recreation and study hours, the day-scholars form separate divisions.

The day-scholars are required to be at the Institute at 8:00 a. m. They may take dinner at the Institute by paying a slight additional charge, or they may bring a lunch with them from home. Class hours close at 4:00 p. m.

The day-scholars are expected to devote two hours at home to their studies every day.

Cleanliness, regularity, and gentlemanly conduct on the way to and from the Institute, as well as faithful observance of regulations, will be exacted from the day-scholars.

The day-scholars are expected to attend religious services in the parishes to which they belong, and they are therefore not required to attend the exercises held in the Institute chapel on Sunday.

The day-scholars are strictly forbidden to perform any commission for boarding students.

EXPENSES

ALL CHARGES FOR THE BOARDING STUDENTS ARE PAYABLE HALF-YEARLY IN ADVANCE.

TUITION BILLS FOR THE DAY-SCHOLARS ARE PAYABLE MONTHLY IN ADVANCE.

HONORS OF GRADUATION WILL NOT BE CONFERRED UPON STUDENTS WHOSE BILLS HAVE NOT BEEN PAID.

NO STUDENTS WILL BE REGISTERED FOR A NEW SCHOLASTIC YEAR UNLESS HIS ACCOUNT FOR THE PREVIOUS YEAR IS SETTLED.

ALL DRAFTS AND CHECKS SHOULD BE MADE PAYABLE TO THE TREASURER, OR TO ST. MARY'S INSTITUTE.

Tuition and board, per annum	$220.00
Laundry	20.00
Library and athletic fee	5.00

Fees for attendance at extraordinary lectures, dramatic performances and athletic events held at the College	4.00
Piano, with use of instrument, per annum—	
Grades A and B	50.00
Grade C	55.00
" D	65.00
Violin (instrument furnished by pupil) per annum—	
Grades A and B	40.00
Grade C	50.00
" D	60.00
Other instruments on a similar basis, according to rates of representative local teachers.	
Orchestra or band membership, per annum—	
For music pupils	5.00
For others	20.00
Typewriting, per annum	10.00
Phonography (private lessons), per annum	10.00
Laboratory expenses—	
Physics or Chemistry, per annum	10.00
Botany	5.00
Graduating fee, College Department	10.00
Graduating fee, High School and Business Departments	2.00
Repairs of all kinds are extra charges, etc., etc., as in catalogue.	
Music expenses payable in advance.	

RATES FOR DAY SCHOLARS

Fifth and Sixth Grades (per annum) (Payable monthly, in advance.)	$20.00
Seventh and Eighth Grades (per annum)	25.00
High School Department (per annum)	30.00
Business Course, with use of typewriter (per annum	40.00
Freshman and Sophomore (per annum)	35.00

Junior and Senior (per annum)	40.00
Dinner at the Institute(per month)	4.00
Laboratory fees (per annum)	10.00

WARDROBE

Each boarding student should come provided with the following articles:

3 Suits—two for daily wear, one for Sundays.
1 Overcoat.
3 Changes of summer underwear.
3 Changes of winter underwear.
6 Pairs of stockings or socks.
6 Shirts.
3 Night shirts.
12 Handkerchiefs.
4 Towels.
4 Napkins.
3 Neckties.
3 Pairs of shoes.
2 Hats or caps.
Toilet articles.

SOCIETIES AND ORGANIZATIONS

LEAGUE OF THE SACRED HEART

The object of the League is to promote interest in the great movements of the times for the true welfare of mankind, by uniting prayers and good works with the intentions of the Sacred Heart of Jesus. Devotions to the Sacred Heart are held on the First Fridays. Membership is confined to the students who have received their First Holy Communion. Number of members, 295.

SODALITY OF THE IMMACULATE CONCEPTION

The Sodality of the Immaculate Conception was established at the College in 1875. Its object is to foster in the hearts of the students a tender love to the mother of God. The Sodality has special devotional exercises every Saturday. Number of members, 149.

HOLY NAME SOCIETY

The Holy Name Society was organized amongst the students at the annual retreat of 1904. Its object is to prevent the use of profane and immodest language, and thus promote the interests of the Holy Name of God.

The resident students are grouped by divisions, and the non-residents by classes. Branch meetings are held twice a month, and the board of General Officers meets once a month. Number of members, 409.

THE S. M. I. EXPONENT

The Exponent, a monthly magazine edited and published by the undergraduates, is the literary organ of

the student body. The first number appeared in March, 1903. As its name indicates, The Exponent is an index of student life at St. Mary's Institute, in all its varied phases. Each monthly issue contains representative work of the pupils of the various departments of philosophic and literary study in which their mental activity is exercised, and a detailed chronicle of the events of college life, which always proves of special interest to the wide circle of parents, relatives and friends of the students.

THE BRYAN LITERARY CIRCLE

The Bryan Literary Circle is a club formed by the members of the Junior Classes. It has for purpose to cultivate the art of speech in public speaking and debates. The reading of current literary magazines is encouraged. The organization meets every month.

THE ADDISON CIRCLE

The Addison Circle is a literary society formed by the graduates of the High School Department. Its object is to cultivate a taste for choice literature in its members, and to foster a spirit of original work in prose and verse. Extemporaneous speaking on current events is a feature of their monthly meetings.

THE ST. MARY'S DRAMATIC ASSOCIATION

The St. Mary's Dramatic Association was organized for the purpose of fostering and cultivating a taste for elocution, oratory, and the drama. Under its auspices several entertainments have been given during the past year.

ST. MARY'S ATHLETIC ASSOCIATION

Membership to the Athletic Association is limited to the pupils of the Senior Divisions. The executive body

of the association, composed of a committee of the faculty appointed by the President, and a number of officers elected by the members, looks to the welfare of the organization and controls the inter-collegiate meets of foot-ball, basket-ball and base-ball.

THE S. M. I. MUSICAL ASSOCIATION

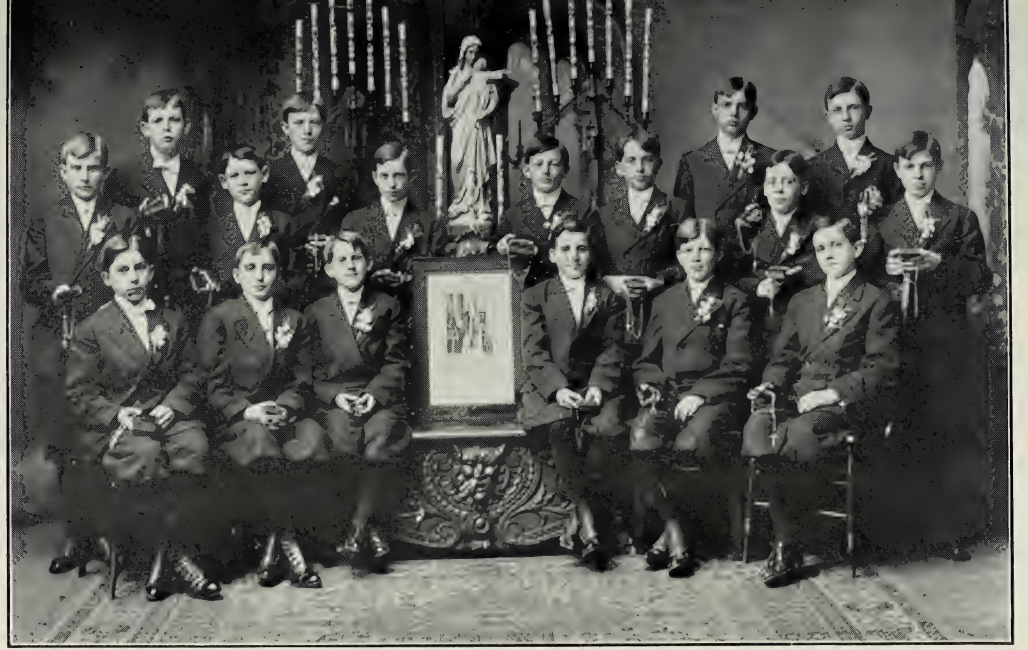
All students of music sufficiently advanced are eligible to membership in this organization. The association, assisted by members of the faculty, conduct a band and an orchestra. Besides enjoying for themselves the advantage of ensemble playing, in the rendition of classic music, they contribute in a great measure to the success of all the great events in the College, both literary and athletic.

THE S. M. I. CHOIR

The S. M. I. Choir is a chorus of one hundred and fifty of the choicest voices to be found among the students, under the able direction of four members of the faculty. Besides contributing their share to enhance the divine service, they are always on hand for a grand chorus or two at the great dramatic performances given for the public.

A View in the College Park at Commencement

The Graduates at Our Lady of the Pines

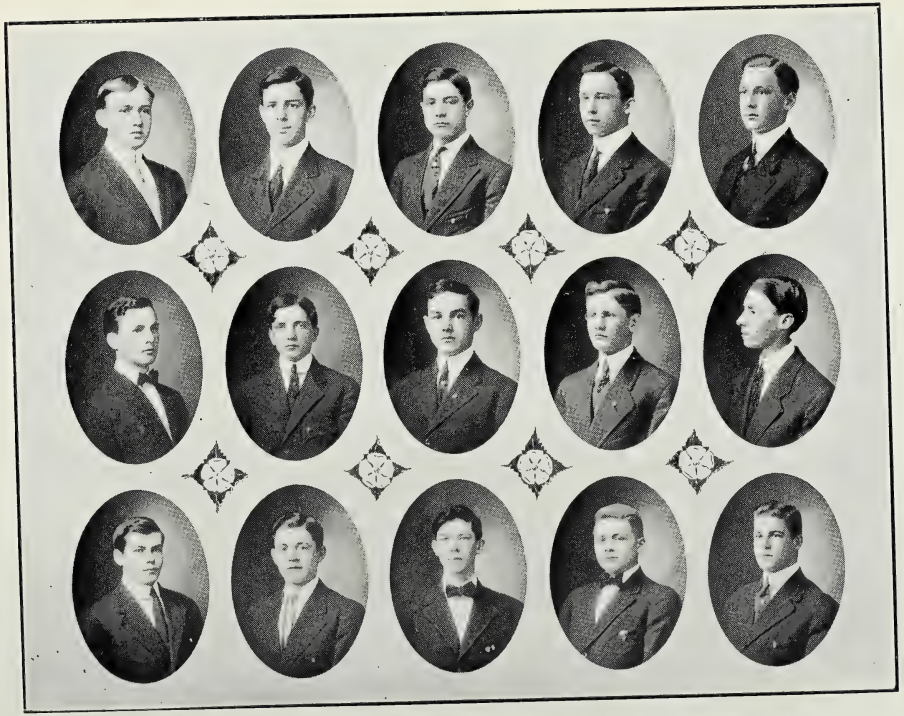


FIRST COMMUNICANTS

C Roth N. Merkel G. Skelton A. Krusling R. Burkhardt R. Kelly M. Koerper A. Herres P. McCafferty E. Gross A. Menninger
R. Taylor Albert Gress B. Losh R. Neary C. Gladen Wm. Kuntz

Harry Anderton Herb. Whalen J Seidensticker C. Wagner U. Focke Jos. Pflaum W. Myers
Jerry Costello W. MacDonald Francis Canny M. Daugherty Ed. Janszen
[illegible] J. Weis C. Hayes J. Georges Ferd. Koch O. Smith Floyd Foster

Chas. Eberly G. Rulmann Paul Sherman Thomas Kearns Edw. Connelly
Edw. Ruhl Francis Mueller Alphonse Mahrt E. Gerlach W. Mayer
Frank Hoffman Francis Byrne J. Crimmins Robert Gray A. Weisenberger



Leonard Poos Edward Cowan Ray DeCastro Edward Schroeder Elmer Focke
John Wickham James Fleming Emmet White Ferd. Stachler Ray Linehan
John Ford Louis Scheve Eugene Sullivan Henry Plato John Ehrler

Football Team

Basketball Team

Baseball Team

HARRY F. CAPPEL, B. S. '98
President of the S. M. I.
Alumni Ass'tion.

EDW. C. SCHOEN, A. B., '03
President of the Chicago
Alumni Association

EDWARD DORGAN, '76
President of the Columbus
Association of Former
Students

JAMES A. AVERDICK, A. B '07
President of the Cincinnati
Association of Former
Students

The Alumni Association of St. Mary's Institute

OBJECT

The object of the Alumni Association is to maintain the friendly intercourse of College days and promote mutual assistance among members, to guard the honor of St. Mary's and further her welfare

Edward Hanbuch, '06 Edward Walsh, '08
Harry B. Solimano, '07 Harry F. Finke, '02 Frank Martin, '07
Charles W. Whalen, '07 William A. Pflaum, '07

THE EXPIATION

H. Amann J. Georges F. Biendl
W. Walter C. Rulmann M. Wagner T. McKearney
L. Deger S. Ohmer F. Grundtish E. Lapierre J. Costello W. Mayer
C. Howe W. Howe

Wagner Mayer Michael Daugherty Eugene Lapierre Jer. Costello Theo. Munchhof Wm. Roemer Paul Nugent
Fred Grundtisch Clarence Rulman Clarence Braun Edwin Robbins Ralph Wirshing Edward Gross
Albert Dorsten William Kuntz Francis Canny Waldron Burkhardt Charles Wagner

General View of the Institute

Students in Retreat

Normal School

Views of the Institute Park

Students' Gift to the Pope

UNIVERSITY OF ILLINOIS

PRESIDENT'S OFFICE

CLASSES WILL BE RESUMED
TUESDAY, SEPTEMBER 7, 1909

337H
12/13

St. Mary's College

BULLETIN

ST. MARY'S COLLEGE

This volume is bound without 1910/11, 1911/12, 1914/15, 1917/18, and 1919/20-1922/23 which ~~is~~/are unavaible.

NUMBER 2

CLASSES WILL BE RESUMED

337H
12/13

St. Mary's College

BULLETIN

ST. MARY'S COLLEGE

DAYTON, OHIO

1912
1913

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UNIVERSITY OF ILLINOIS

PRESIDENT'S OFFICE

SIXTY-SECOND YEAR

SERIES XXIV NUMBER 2

St. Mary's Institute

DAYTON, OHIO

A Boarding and Day School for
Young Men and Boys

ESTABLISHED IN 1850 BY THE SOCIETY OF MARY

Courses of Studies

I. COLLEGIATE { CLASSICAL / SCIENTIFIC
II. ENGINEERING
III. HIGH SCHOOL
IV. BUSINESS
V. ELEMENTARY

BOARD OF TRUSTEES

Very Rev. George Meyer, S. M.
President

Rev. Bernard P. O'Reilly, S. M.
Vice-President

Bro. George Sauer, S. M.
Secretary

Bro. Edward Gorman, S. M.
Treasurer

OFFICERS OF THE COLLEGE

Rev. Bernard P. O'Reilly, S. M.
President

Rev. Lawrence Yeske, S. M.
Vice-President

Bro. Edward Gorman, S. M.
Treasurer

Bro. Philip Kleinhans, S. M.
Steward

Rev. Aloysius Schratz, S. M.

ST. MARY'S INSTITUTE

DAYTON, OHIO

GENERAL STATEMENT

St. Mary's Institute is a boarding and day-college for young men and boys, under the direction of the Society of Mary. It was incorporated in 1878, and empowered to confer degrees by an act of the General Assembly of the State of Ohio.

Visitors arriving at the Union Depot can take an Oakwood electric car going south at the corner of Main and Fifth streets, and proceed directly to the Institute.

The extensive grounds of over 100 acres are located in South Park, a remarkably picturesque spot within the city of Dayton, overlooking the Miami Valley. St. Mary's has all that a college of today calls for, viz., dormitory building with private rooms; halls, modern in every detail; complete equipment for all departments (laboratories, libraries, museums, etc.); a picturesque park, a natatorium, a gymnasium and auditorium, club rooms, and campuses of over ten acres to accommodate the entire student body.

A new Dormitory Building was opened June 1, 1911. All private rooms are equipped with every convenience—electric light, steam heat, hot and cold water, and pure spring water. Bath rooms are installed on every floor. No expense is spared to make the rooms as comfortable and home-like as possible.

INSTRUCTION

Departments

There are five distinct departments of studies at St. Mary's: A Collegiate Department (classical and scientific) of four years, a Department of Engineering, four years of Academy of High School, a two years' Business Course, and an Elementary Department comprising the higher grades of grammar school. The studies in all departments, excepting the Collegiate and Engineering Departments, are prescribed and not elective.

Collegiate Department

The Collegiate Department purposes to offer to the student the time and opportunity to cultivate further and to bring to maturity the qualities of mind and heart and will that have been developed to great extent in the Academic or High School Department. To

attain this aim a greater latitude is permitted in the selection of studies. The studies of the Collegiate Department are divided into three groups, leading to the degrees of Bachelor of Arts, Bachelor of Letters, and Bachelor of Science. The selection of studies is made with the advice of and in consultation with members of the faculty designated for this purpose, and with the approval of the Prefect of Studies. Christian Doctrine, Philosophy, and English are considered fundamental studies for all degrees. Latin and Greek are characteristic studies for students wishing to obtain the degree of Bachelor of Arts. Latin, History, and Modern Languages are characteristic studies for candidates aspiring to the degree of Bachelor of Letters. The Sciences, Mathematics, and Physics, or Chemistry, or Biology, are characteristic studies for the degree of Bachelor of Science. In addition to this there is granted more or less selection in each group, especially in the Senior Year. For a detailed account of studies offered in the Collegiate Department, see the Program of Studies.

Engineering Department The Department of Engineering, organized September, 1910, is designed to satisfy an oft-repeated desire and to fill a long-felt need. The department is a natural outgrowth of the science courses which have always received considerable attention at St. Mary's.

No effort is spared to acquaint the student thoroughly with the fundamental principles and to give him a good insight into the theoretical analysis of engineering problems. While emphasis is laid on fundamental theory, continual attention is paid to the solution of practical problems for the purpose of imbedding principles and illustrating the lines of their general industrial application. At the same time students are trained to habits of initiative and industry, and will thus be well prepared to adapt themselves readily to actual conditions and requirements, and to grapple with new problems that from time to time confront the professional engineer.

Lecture and text-book courses are accompanied throughout by quantitative work in well-equipped laboratories.

Frequent visits are made to accessible engineering establishments to make the study thoroughly conversant with the trend of current engineering practice. For such purposes Dayton offers exceptional facilities owing to the great number and variety of engineering plants located in the city and vicinity.

Lectures by engineers in active service will help to keep the student in touch with professional work.

For detailed information apply for special **Engineering Catalogue.**

High School Department The Course of study in the High School Department extends through four years, and is equivalent to the usual High School course given in American High Schools. It provides a systematic instruction in Christian Doctrine, English Composition, Rhetoric, Literature, English Classics, Latin, a modern language (German, French, or Spanish), Algebra, Geometry, Physical Geography, Physiology, Botany, Zoölogy, Chemistry, Physics, Civics, Ancient, Mediaeval and Modern History, and Elocution. (For a detailed account of the courses, see the Program of Studies.) A certificate of graduation from the High School Department, or its equivalent, is required for entrance into the Freshman Class of the College.

Commercial or Business Course The Commercial or Business Course is intended for those who cannot command the time, or have not the inclination for a thorough High School or Collegiate training. While the curriculum does not develop the mental faculties so fully and so harmoniously as the more thorough and systematic courses in the classics and sciences offered by the Collegiate Department, nevertheless it supplies all requirements of a good business education. The curriculum comprises the study of Religion, a thorough course in English, including Grammar, Rhetoric, Literature, English and American Classics, Business Writing, Composition, General History, Business Arithmetic, Bookkeeping, Commercial Law, Commercial Geography, Phonography, Typewriting, and Elocution. The course lasts two years, and is open to students of the Institute that possess the necessary preliminary instruction and to applicants from other schools, who will be required to pass a satisfactory examination. For a detailed account of studies refer to the Program of Studies.

Elementary Department The Elementary Department accommodates students of the fifth, sixth, seventh, and eighth grades of grammar school. It provides a sound training in Christian Doctrine, Reading, Penmanship, Grammar, Arithmetic, United States History, Geography, Elocution, Drawing and Etiquette. The completion of the elementary course, or the eight years' course, in a parochial or public school is required for entrance into the High School Department. For detailed account of studies, see the Program of Studies.

Session The academic year consists of only one session, beginning in the first week of September, on the date specified on index page and closing in the latter part of June.

It is very desirable that all students enter on the first day of the session; however, applicants are received at any time during the academic year and charged for the remainder of the session.

Candidates for admission are required to present testimonials of good moral conduct.

Rank

In the Elementary and High School and Business Departments the rank of each student is determined by daily marks, weekly competition in each branch of study, and half-yearly examinations. A record of the standing of each student in scholarship and conduct is kept in the registers of the Institute, and a copy is sent to the parents and guardians at the end of each month.

In the Collegiate and Engineering departments there are written tests at least once a week, or at least once every two weeks, according to the nature of the subject, supplemented by oral recitations, at the discretion of the professors.

Bi-monthly records of these tests and written work (tasks) are kept by the professors.

The monthly standing of the students is publicly proclaimed at the beginning of the month.

After every semester there are written examinations on the program of the last half-year, supplemented by oral examinations, if demanded by the nature of the subject.

An average of 70 per cent. for the written work, written tests, and the semester examination is required to receive credit for any study.

Medals

Medals and honors for scholarship are awarded at the Annual Commencement and published in the catalogue of awards.

Gold medals for excellence in class studies are awarded in the High School and Business classes.

Excellence in class studies is determined by the monthly marks, weekly competitions, and half-yearly examinations.

A minimum average of eighty-five per cent. is required to win a gold medal.

Honors for single studies are determined by competition only.

A mention for First Honors is given in the annual catalogue of awards to students that have attained an average of ninety per cent. A mention for Second Honors is given to those students that have attained an average of eighty-five per cent.

The following gold medals are awarded to the students of the B. A. and B. L. degrees:

Freshman—Excellence in English Studies.
Sophomore—Excellence in Latin Studies.
Junior—Excellence in Greek and History.
Senior—Excellence in Philosophical Studies.

The following gold medals are awarded to students of the Engineering degree:

Freshman—Excellence in Mathematics and Chemistry.
Sophomore—Excellence in Mathematics and Physics.
Junior—Excellence in Mathematics and French.
Senior—Excellence in Mathematics and Physical Sciences.

Following are the prizes and medals from generous donors:

Two gold medals for Excellence in Irish History, in the High School Department, donated by the Ancient Order of Hibernians.

A gold medal for Excellence in the Second Business Class, donated by Mr. August Janszen, Sr., of Cincinnati, Ohio.

A gold medal for Elocution, donated by C. E. W. Griffith. This gold medal is decided in public contest. All students of the High School and Business Departments are eligible to compete.

A gold medal for Excellence in English Studies, Freshman Letters Class, in memory of George A. Pflaum, Dayton, Ohio

A gold medal for Excellence in Mathematics and Physics, donated by the Hon. Thomas J. Coughlin, '93, of Cleveland, Ohio.

A gold medal for Excellence in Christian Doctrine, in the Sophomore Class, donated by William H. Holters, of Covington, Ky.

A gold medal for Excellence in Theodicy, in the Senior Class, donated by the Rev. F. Joseph Kelly, '90, of Dayton, Ohio.

The Alumni Association is the perpetual donor of a gold medal to be awarded to a member of the graduating class for proficiency in English composition, both prose and verse. The competitions for the medal are held in December and March, and comprise each time an essay and a piece of verse. Students who have distinguished themselves in composition during the year, and who have been active contributors to The Exponent, are eligible to compete.

The Harry C. Busch Excellence Prize. The Hon. Harry C. Busch, '96, attorney of Cincinnati, is the donor of a cash prize of $20.00 in gold to the honor student of the Senior Letters class, who at the time of graduation has the highest averages for Latin, Greek, English, and History for his entire Collegiate course.

Chicago Alumni Athletic Medal. The Chicago Alumni Association is the donor of a medal to be awarded the student excelling in all the Varsity sports at the College.

The Rev. Charles Polyscek Philosophy Prize. The Rev. Charles Polyscek, pastor of the Holy Name Church, Dayton, Ohio, is the donor of a cash prize of $30.00 in gold, to be awarded to the two honor students in Philosophy. The first prize is $20.00, the second $10.00.

The D. G. Reilly Oratory Prizes. Dr. D. G. Reilly, one of the college physicians, has astablished an Oratory Endowment Fund of $1000.00, the annual proceeds of which realize three prizes of

$30.00, $20.00 and $10.00 in cash to the three most successful participants in the annual Oratorical contest. All students of the Collegiate and Engineering Departments are eligible to compete.

Pupils that enter the Institute after January 1st cannot compete for awards.

The boarding students whose average monthly standing in conduct and application is 95 per cent., receive a certificate of good conduct at the annual commencement. If, at the time of graduation from the Collegiate Department, a student holds four of these certificates, two of which have been merited during the years immediately preceding graduation, he is entitled to a medal for good conduct.

Promotions

Class promotions are determined at the close of the year by the result of the term examinations, by the monthly class percentages, and weekly competitions. The promotions are proclaimed at the Annual Commencement, and each student promoted receives at the same time a certificate of promotion.

Attendance at the courses is strictly enforced. A student that fails to attend ten per cent. of the number of hours devoted to any one study cannot receive credit for that study.

A general average of seventy per cent. is required to receive credit in any study. A student that has not attained an average of seventy per cent. will be conditioned in that study. If he fails to attain an average of seventy per cent. in more than three studies out of ten, or in more than four studies out of eleven, he will not be promoted.

No student will be permitted to take part in athletic contests if he has not attained an average of seventy per cent. for his studies.

Degrees and Diplomas

A student of the Senior class who, at Easter, has not attained an average of seventy per cent. for the monthly marks and the January examination, cannot compete for graduation honors in the following June.

Upon the successful completion of sixty-six points, and the recommendation of the faculty, the Board of Trustees will confer the Degree of Bachelor of Arts, or Bachelor of Letters, or Bachelor of Science.

These degrees will be conferred according to the candidate's scholarship with the mention **summa cum laude,** or **magna cum laude, or cum laude.**

A diploma is awarded to students who have completed either the High School or the Commercial Course and have passed a satisfactory examination.

Libraries Besides the Institute library, there is a circulating library in the study hall of each division of boarding students.

DISCIPLINE

Methods The sole object of the Institute is to impart to boys and young men a thoroughly Catholic education. Its government is designed to continue the family life. In order to secure the regularity and assiduity that are indispensable to the success of any educational work, the pupils are uniformly held to strict obedience, diligent application, and blameless conduct. The discipline is conservative in character, and designed to train the pupils to habits of self-control and gentlemanly conduct. The manner of enforcing the regulations is firm, yet mild and parental, and appeals chiefly to the pupil's conscience and sense of honor. Convinced of the insufficiency of merely human means to insure the true education of mind and will and heart, the authorities of the Institute place their chief reliance for the success of their educational work on the influence of religious principles and practices. Hence, the doctrine and precepts of the Catholic religion are taught in all classes, and the exercises of religion hold a prominent place among the daily recurring events of school life.

Regulations The boarding students form four distinct divisions—the First, the Second, the Third, and the Fourth. Each division has its own study hall, playground, and club room.

The correspondence of the students is controlled by the authorities. No printed matter is allowed to circulate among the students until it has been examined and approved.

The students are not allowed to leave the grounds without a written permit.

Leave of absence is granted for one day, **on the last Sunday of each month,** to those among the boarding students whose marks for class work and conduct during the preceding month are satisfactory, and whose parents or relatives live in the city of Dayton.

The weekly holiday is Thursday. Sunday and Thursday are the most convenient days of the week for visiting students.

A short vacation is granted during the Christmas season and at Easter. No students are kept during the summer vacation.

It is of the utmost importance that the students be present every day of the academic session. Hence they should be prompt to return at the close of the vacations.

The ordinary causes for dismissal are insubordination and bad conduct.

DAY SCHOLARS

During recreation and study hours the day-scholars form separate divisions.

The day-scholars are required to be at the Institute at 8:15 a. m. They may take dinner at the Institute by paying a slight additional charge, or they may bring a lunch with them from home. Class hours close at 4:00 p. m.

The day-scholars are expected to devote at least two hours at home to their studies every day.

Cleanliness, regularity, and gentlemanly conduct on the way to and from the Institute, as well as faithful observance of regulations, will be exacted from the day-scholars.

The day-scholars are expected to attend religious services in the parishes to which they belong, and they are therefore not required to attend the exercises held in the Institute chapel on Sunday.

The day-scholars are strictly forbidden to perform any commission for boarding students.

NECESSARY EXPENSES

Matriculation Fee (payable on first entrance)	$ 5 00
Tuition, Board, Laundry	240 00
Library, Athletic Fee, and Admission to Lectures, Entertainments, Intercollegiate Games and Contests	10 00

PAYABLE IN ADVANCE, as follows:

On Entrance in September

Matriculation Fee (payable first year only)	$ 5 00
First Payment on Board, Tuition, and Laundry	120 00
Library, Athletic Fee, etc.	10 00
Deposit on Book and Stationery Account	10 00
Total	$145 00

On January 20

Board, Tuition, and Laundry	$120 00

In this Second Payment must be included all Extra Expenses, such as charges for use of Laboratories, Music, etc., and any extra expenses the student may have incurred.

OPTIONAL EXPENSES

PRIVATE ROOMS, PAYABLE YEARLY IN ADVANCE	$ 80 00 90 00 120 00

Owing to the fact that the number of private rooms is limited, money will not be refunded if a student loses the privilege of room. Exception is made to this ruling only in case of sickness.

Instrumental Music—

Piano with use of instrument, Grades A and B	$ 50 00
Grade C	55 00
Grade D	60 00
Violin (instrument furnished by pupil) Grades A and B	40 00
Grade C	50 00
Grade D	60 00
Orchestra or band membership—for music pupils	5 00
For others	20 00
Artistic Drawing and Painting	20 00
Use of Office Appliances	10 00
Phonography (private lessons)	10 00
Surveying (per semester)	3 00
Use of Drawing Tables	2 00

Laboratory Fees—

Physics	10 00
Chemistry	10 00
Chemistry (Sophomore and above)	15 00
Deposit for breakage	10 00
Botany	5 00

Graduation Fee

For all courses leading to Bachelor Degrees, $10.00; High School and Business Courses, $2.00.

Rates for Day Scholars

Tuition rates for Day Scholars are payable half-yearly in advance, as follows:

Matriculation Fee (payable first year only)	$ 1 00
Fifth and Sixth Grades (per annum)	20 00
Seventh and Eighth Grades (per annum)	25 00
High School Department (per annum)	30 00
Business Course, with use of typewriter (per annum)	40 00
Freshman and Sophomore (per annum)	35 00
Junior and Senior (per annum)	40 00
Dinner at the Institute (per month)	4 00

REMARKS

Repairs of all kinds are extra charges.

Books and stationery can be purchased at the Institute at current prices.

The Institute will not provide a pupil with clothing or extras unless a sufficient sum of money for this purpose be deposited with the Treasurer.

No deduction is allowed for the Christmas or Easter holidays.

Pocket money may be deposited with the Treasurer, to be given as prudence may suggest or occasion may require.

The Institute will not hold itself responsible for any valuables, such as money, rings, watches, etc., unless these are deposited with the Treasurer.

ALL DRAFTS AND CHECKS SHOULD BE MADE PAYABLE TO THE TREASURER, OR TO ST. MARY'S INSTITUTE.

NO STUDENT WILL BE REGISTERED FOR A NEW SCHOLASTIC YEAR UNLESS HIS ACCOUNT FOR THE PREVIOUS YEAR IS SETTLED.

HONORS OF GRADUATION WILL NOT BE CONFERRED UPON STUDENTS WHOSE BILLS HAVE NOT BEEN PAID.

INTEREST WILL BE CHARGED ON BILLS OF SIX MONTHS' STANDING.

WARDROBE

Each boarding student should come provided with the following articles:

3 Suits—two for daily wear, one for Sundays.
1 Overcoat.
3 Changes of summer underwear.
3 Changes of winter underwear.
6 Pairs of stockings or socks.
6 Shirts.
3 Suits of Pajamas.
12 Handkerchiefs.
4 Towels.
4 Napkins.
3 Neckties.
3 Pairs of shoes.
2 Hats or caps.
Toilet articles.

REGISTER OF STUDENTS

Achey, Arthur.....6th Grade
Adams, Myron.....8th Grade A
Agnew, Paul.....4th High
Albers, Herbert.....3d High B
Anderson, Leon E...Fresh. Eng.
Angel, Gerald.....4th High
Anthony, Edward...8th Grade B
Armstrong, John....8th Grade A
Avery, Frederick.....3d High A
Avery, William.....2d High A
Baczenas, John.....2d High C
Bahlman, Herbert.....4th High
Barlow, Leo.....2d Business
Barlow, Vincent.....1st High A
Bauer, Clement.....3d High A
Becherer, Russell...8th Grade A
Behler, Clark.....1st Business
Behrer, Otto.....3d High B
Belanic, Michael.....6th Grade
Belt, Alvin W.....8th Grade A
Benvenuti, Clarence..8th Grade B
Benvenuti, Robert...8th Grade B
Berghoff, John A....Fresh. Eng.
Bergman, Leo.....4th High
Bergman, Norbert....1st High A
Beringer, Oscar.....2d Business
Berning, Franklin.....6th Grade
Berry, Urban.....6th Grade
Berry, Richard.....3d High A
Biechele, William.....6th Grade
Blaire, Walter.....4th High
Bodem, Carl.....5th Grade
Boesch, Horace.....2d High
Bohnert, Herbert.....5th Grade
Bohnert, Leander.....5th Grade
Boote, Frank.....8th Grade B
Borntraeger, Karl...8th Grade A
Bosler, Ned.....1st High B
Bradmiller, Edwin....Soph. Eng.
Braun, Carl.....6th Grade
Braun, Clarence...Freshman Eng.
Broadstone, Raymond.1st High A
Brubaker, Hubert.....5th Grade
Buchanan, James.....1st High A
Burba, Francis.....8th Grade A
Burbridge, John.....3d High B
Burgmeier, Albert.....3d High A
Burkhardt, Waldron..2d High A
Burnell, Elmer.....5th Grade
Burns, Joseph.....2d High B
Burns, Robert.....8th Grade B
Busch, Edward.....7th Grade
Busch, Eugene.....5th Grade
Busch, Ralph.....7th Grade
Bubolz, Albert.....6th Grade
Carey, Raymond....8th Grade B
Casey, James.....8th Grade A
Caulfield, John.....1st High B
Cetinski, Coleman.....6th Grade
Clark, Louis.....Junior Letters
Clasgens, Cyril.....1st High B
Cole, Edwin H.....3d High B
Connelly, Edward.Senior Letters
Connolly, John M.....6th Grade
Cooper, Leslie.....2d High C
Corbett, Sylvester.....7th Grade
Cox, Orville.....7th Grade
Crawford, Springer...2d High A
Creedon, Charles.....3d High A
Crossin, John.....Fresh. Letters
Crowley, Aloys.....2d High A
Crowley, John.....4th High
Cullen, James.....3d High B
Cullen, Rodney.....2d High C
Cummings, Frank.....2d High C
Dabbelt, Leo.....8th Grade B
Decker, Herman.....7th Grade
DeMaro, Doyle.....1st Business
Devers, Murell.....8th Grade A
Dick, Joseph.....4th High
Dillhoff, Edward.....1st High B
Dillon, John.....Soph. Letters
Dohse, Quinten.....2d High B
Dolan, James.....2d High C
Donnelly, Orville.....2d High C
Donovan, George.....3d High A
Doran, Walter.....2d High B
Downey, John.....6th Grade
Drzymala, John.....6th Grade
DuBrul, Stephen.....6th Grade

Duffy, William.....1st High A
Dugan, Frank.....4th High
Dunn, Gerald E.....3d High A
Durbin, Andrew.....2d High C
Edmondson, Emil..Fresh. Letters
Edmondson, George....6th Grade
Eichelberger, Perle....3d High A
Eilerman, Robert.....7th Grade
Emmanuel, John.....7th Grade
Emmanuel, Victor.....1st High B
Ernst, Carl.....7th Grade
Fahey, Frank.....1st High A
Faigle, William.....3d High B
Farley, John.....1st High B
Farley, Philip.....2d High C
Farrell, Francis M..1st Business
Farrell, Henry L.....4th High
Farrell, James.....2d High B
Farrell, Thomas.....2d High B
Farrell, Vincent.....1st High A
Feidner, H. J.....4th High
Fernedinq, Joseph....2d High A
Ferrero, Demofilo....8th Grade B
Fien, Herman.....6th Grade
Finlayson, William...2d High B
Fitzpatrick, Charles...3d High B
Fogarty, William H...3d High A
Foley, John.....6th Grade
Freeman, Eugene.....3d High A
Fries, Robert.....2d High C
Fries, William.....2d Business
Ganster, Earl B.....2d High C
Garcia, Prudencia...8th Grade B
Gaynor, Frank.. ....1st High A
Geiger, August.....1st High B
Gerlach, Eugene...Senior Letters
Gerlach, Ralph.....2d High A
Goeckeler, Carl.....2d High B
Goesling, Herbert....8th Grade A
Goldcamp, Frank.....1st High A
Gorman, Lawrence....2d High B
Graf, Harry.....8th Grade A
Graham, Joseph....Soph. Letters
Gray, Robert.....Soph. Eng.
Greble, Richard.....7th Grade
Greiwe, Clarence....1st Business
Greiwe, Julian.....5th Grade
Grills, George.....6th Grade
Gross, Edward.....4th High
Grote, Richard.....7th Grade
Grote, Walter.....5th Grade
Grote, William.....5th Grade
Gulinski, Stephen .....4th High
Haag, William L.....6th Grade
Haas, Albert.....1st High B
Haas, Edwin.....1st High B
Haile, Herbert.....1st High A
Hais, Elmer.....2d Business
Haley, George.....5th Grade
Hall, Edward.....3d High A
Hall, James.....Freshman Eng.
Hampe, Bernard.....2d High B
Hanley, Robert.....8th Grade B
Hart, Harry.....1st Business
Hawker, Landis.....6th Grade
Hayes, Celestine.....2d High C
Heath, William.....5th Grade
Heck, Carl.....8th Grade A
Heile, Leonard.....8th Grade B
Heile, Marcellus.....7th Grade
Hemsteger, Samuel....7th Grade
Herbert, Carl.....8th Grade A
Herkenhoff, Alfred....2d High B
Hetterman, Bernard...6th Grade
Hickey, Charles.....7th Grade
Hickey, William.....7th Grade
Hieber, Raymond.....2d High B
Hill, Chester.....1st High B
Hill, Hayden.....7th Grade
Hill, Lyman.....3d High B
Hillery, Frank.....2d High A
Hochwalt, Cyril.....3d High A
Hochwalt, George...8th Grade B
Hochwalt, Norman....2d High B
Hogan, Edward.....4th High
Hogan, John.....2d High B
Holzen, Charles.....7th Grade
Hook, Herbert.....4th High
Hook, Joseph.....1st High B
Hornung, Leo.....8th Grade A
Hosket, Gustave.....8th Grade B
Hosket, Harry.....5th Grade
Hosket, Richard.....5th Grade
Howald, Carlisle.....4th High
Howard, William.....7th Grade
Hussong, John.....2d High A

Irwin, Fred.....5th Grade
Joyce, William.....8th Grade B
Keagler, Andrew.....6th Grade
Keeley, Harold.....8th Grade A
Keenan, Harold.....3d High B
Kelble, Andrew.....8th Grade A
Kelley, Clarence.....1st Business
Kelly, John.....8th Grade A
Kelly, Richard.....1st High A
Kelly, Thomas.....2d High B
Kenney, John.....4th High
Kenning, Leon.....1st Business
Kessler, Edward.....6th Grade
Kessler, Fred.....8th Grade B
Kette, Charles.....1st High A
Keuping, James W...2d High B
Kinstle, George.....2d High B
Klein, Henry J....Soph. Letters
Klenke, Gerard.....7th Grade
Kline, J. H.....4th High
Klin, Urban.....1st High A
Klopf, Andrew.....Fresh. Eng.
Klopp, George.....8th Grade A
Knoth, Albert N.....3d High A
Koors, Irvin.....7th Grade
Kovacic, Frank.....8th Grade B
Kramer, Justin.....2d High A
Kranz, Bernard.....3d High A
Kranz, Carl J.....3d High A
Kreber, Leo.....2d High C
Kreber, Raymond...8th Grade B
Krusling, Ernest.....7th Grade
Krusling, J. A.....3d High A
Krusling, Otto.....3d High A
Kubkowski, Frank..8th Grade A
Kuhn, Joseph J.....2d High B
Kuntz, Albert.....3d High A
Kuntz, Andrew.....2d High C
Kuntz, Edward.....7th Grade
Kuntz, George.....4th High
Kuntz, Martin.....2d Business
Kuntz, William.....3d High A
Kutschera, Walter.....7th Grade
Lause, E. M.....3d High B
Lause, Matthias.....2d High B
Lauterbach, Edwin....2d High B
Lechleiter, Edward....2d High A
Ledger, John.....8th Grade A
Leininger, Urban.....7th Grade
Leo, Emmett.....1st High B
Leonard, Bryan.....2d High B
Leonard, Edward.....1st High A
Leonard, Joseph.....8th Grade A
Long, George.....8th Grade A
Lukey, Ernest.....1st High A
Macklin, Thomas.....4th High
Madigan, Edward.....6th Grade
Mahoney, Frank.....2d High A
Mahoney, George.....3d High A
Mahoney, Thomas ....1st High A
Mahrt, Alphonse...Senior Letters
Mahrt, Armin.....6th Grade
Makley, Torrence A...3d High B
Maloney, Daniel E...2d Business
Maloney, Edward.....1st High B
Maloney, E. J.....2d High A
Manche, Charles.....2d High C
Mastbaum, Vincent.....6th Grade
Mayer, Charles.....8th Grade A
McCulloch, John W...2d High A
McCulloch, Wendell...3d High B
McCourt, Walter.....4th High
McDonnell, Frank.....7th Grade
McDonough, John.....3d High A
McEntee, Harold.....2d High A
McGarry, Leo.....2d High C
McGreevy, Joseph.....1st High B
McMahon, James.....2d High A
Medley, Frank J.....2d High A
Medley, George.....3d High B
Meininger, Albert.....3d High B
Melke, Carroll.....8th Grade A
Menninger, Albert...1st Business
Menninger, Edward..8th Grade B
Menninger, Lawrence..6th Grade
Meyer, Charles.....2d High C
Meyer, Joseph A.....4th High
Meyer, Alphonse.....6th Grade
Miller, Chester.....1st High A
Miller, Cloyd.....6th Grade
Miller, Robert.....1st High A
Miltenberger, Louis G..7th Grade
Moeller, Alphonse.....3d High A
Moeller, Frank.....7th Grade
Monning, Howard....1st High B
Monning, Leon.....2d High A

Monning, Norbert ....1st High B
Moosbrugger, Joseph.1st High A
Moran, William.....7th Grade
Morgan, Clifton.....3d High A
Morin, Ralson.....2d High A
Mueller, Francis M..Sen. Letters
Munch, Erich.....1st High B
Murphy, Lloyd.....4th High
Muth, Richard J.....6th Grade
Neal, John.....6th Grade
Neary, Edward.....1st High B
Neary, Ralph.....8th Grade B
Niehaus, Joseph.....8th Grade B
Neutzling, Ralph.....1st High A
Neutzling, Theodore...5th Grade
Newnam, Russel J.....4th High
Norckauer, Frederick...4th High
Nugent, Clarence.....1st High A
Oberlander, John J....3d High B
O'Brien, Daniel.....8th Grade A
O'Brien, Raymond..Soph. Letters
O'Brien, William....8th Grade A
Ochs, Allan D.....2d Business
O'Connell, Robert.....4th High
Oelrich, Clifford.....8th Grade B
Ohmer, Fred.....2d High A
Ohmer, Raymond.....2d High A
Ohmer, Paul.....1st High B
Olberding, Francis....2d High B
Olberding, Paul.....1st High B
O'Leary, Harry.....2d High C
O'Leary, William....1st Business
Olt, Walter J.....1st High A
Oppenheim, Theodore..2d High A
Oppenheim, Joseph.....4th High
Ostendorf, G. S.....6th Grade
Ott, John.....8th Grade B
Ott, Spencer.....1st High B
Oxrider, Harry.....1st High A
Palmert, Oscar.....1st High A
Paulick, Louis.....1st High B
Petereit, Bernard.....3d High A
Pfeifer, Edward, Jr...3d High B
Pflaum, Richard.....3d High A
Poeppelmeier, Raym'd..6th Grade
Pohlman, Aloys.....1st High B
Powers, James.....2d High B
Purpus, Edward..Freshman Eng.
Quinlan, Lester.....2d Business
Rauen, Joseph F.....4th High
Reasor, J. A.....8th Grade B
Reichert, John.....2d High B
Reitemeier, Walter...2d High B
Reith, William A.....3d High B
Remelin, Marshall...8th Grade B
Reynolds, John.....2d High C
Richter, Edwin.....2d High C
Richter, Russell.....8th Grade B
Rieger, Cletus.....1st High B
Rieser, Theodore..Fresh. Letters
Rigney, George.....2d High B
Ritzert, Robert W....2d High A
Robbeloth, Edward....2d High C
Roberts, Preston....8th Grade B
Roche, Thomas.....2d High C
Roehm, Louis B.....3d High A
Rolandelli, Jerome..8th Grade A
Rost, Henry.....5th Grade
Roth, Edward.....6th Grade
Roth, John T.....2d High C
Rottermann, Eugene....4th High
Rottermann, Louis...Fresh. Eng.
Rudolph, Carl J.....4th High
Ruhl, Edward.....Senior Letters
Ruh'man, Herbert...2d Business
Ryan, Carl.....4th High
Ryan, Thomas.....Soph. Letters
Sacksteder, Hugh....2d Business
Sacksteder, Norbert...2d High B
Sanchez, Enrique....8th Grade B
Satalia, Fidele.....5th Grade
Schafer, Francis.....8th Grade A
Schaefer, Joseph.....1st High A
Schell, Isadore.....8th Grade A
Schenk, Eugene L.....2d High C
Schenk, Robert.....3d High A
Scheid, Arthur.....1st High A
Schleinitz, William...3d High B
Schleipeck, John.....2d High C
Schlichte, Vincent.....1st High A
Schlipf, Leonard.....1st High B
Schmedinghoff, Alcys...4th High
Schmidt, Waldimar...2d High B
Schmitt, Charles, Jr...2d High C
Schmitt, Clarence J.....4th High
Schneble, Martin.....4th High

Schneider, Chas. A..8th Grade B
Schnorr, Edwin.....1st High B
Schoenung, Albert.....7th Grade
Schoenung, Martin.....6th Grade
Schroeder, A'oys.....7th Grade
Schroeter, Ivo.....7th Grade
Schuchert, Chas. J..8th Grade B
Schumacher, Alphonse...Soph. L.
Schumacher, Ambrose.1st High B
Schwietermann, John.2d Business
Seidensticker, Wm.....Postgrad.
Seidl, Lawrence.....8th Grade B
Shanahan, George.....3d High A
Sherlock, Edward....2d Business
Sherry, Robert J.....4th High
Sherry, William.....2d High B
Shiels, C. F.....3d High B
Shuey, Raymond.....Fresh. Eng.
Skeffington, Vincent..1st Business
Smirnoff, Vladimar...2d Business
Smith, Charles.....6th Grade
Smith, Frank.....Fresh. Letters
Snyder, Charles.....2d High A
Snyder, Roush.....5th Grade
Snyder, Vincent.....8th Grade A
Sourd, Earl.....4th High
Spatz, John E.....5th Grade
Stagmeier, Paul.....6th Grade
Stine, Walter.....8th Grade A
Steiner, Albert E.....1st High A
Stidd, Gregory.....8th Grade A
Stowell, Allen L....1st Business
Stubbers, Joseph.....7th Grade
Stuber, Carl C.....2d High B
Sturm, Fred W.....Soph. Eng.
Summers, Russe l J...3d High B
Swadener, Otto.....5th Grade
Swift, Leonard.....3d High B
Swift, Paul.....2d High A
Synnett, M. C.....Fresh. Letters
Tabasso, Louis.....8th Grade A
Taif, Harry.....2d Business
Tangeman, Clarence.....4th High
Teigler, George.....2d High C
Teyber, John.....1st High B
Thill, Frank A.....4th High
Trentman, Robert....2d High B
Underwood, Russell..2d Business
Unger, Aloys.....7th Grade
VanDenbroek, Julian F..4th High
Voss, Walter.....1st High B
Wager, Arnold.....1st High A
Wald, Albert L.....2d High C
Wall, Arnold.....2d High A
Wall, James.....7th Grade
Walsh, Henry W.....Soph. Eng.
Walsh, Leo M.....Soph. Letters
Warren, Lawrence...1st High B.
Wasmuth, Robert.....7th Grade
Weaver, Leo E.....2d Business
Weaver, Wilfred.....1st Business
Weber, Edward.....1st Business
Weber, Vincent.....2d High B
Weed, Harold.....6th Grade
Wehner, William.....1st High A
Weidner, Walter.....3d High B
Weigand, John.....3d High B
Weinert, Henry.....6th Grade
Welch, Edward....Fresh. Letters
Welch, Paul.....1st Business
Wellmeier, Clarence...1st High A
Wellmeier, Elmer.....7th Grade
Wenstrup, Carl.....5th Grade
Wenstrup, Edward.....7th Grade
Werder, Gerard.....4th High
Werder, Raymond.....1st High B
Werder, Vincent....8th Grade B
Werner, W. J.....2d High C
Weser, Joseph.....1st Business
Wickham, Henry.....4th High
Williams, Wa'ter.....3d High A
Windbiel, Joseph E...3d High B
Wintermeyer, Walter..3d High A
Wintermeyer, Paul...1st High A
Winters, Edward.....1st High A
Wirshing, Ralph.....4th High
Wolf, Leo.....6th Grade
Wollenhaupt, Ralph....Postgrad.
Wunderlich, Orville..Fresh. Eng.
Wynne, Howard.....8th Grade A
Zimmer, Edward....1st Business
Zimmerman, Carl.....4th High
Zink, Charles.....1st High B
Zinkan, Earl.....3d High A

SOCIETIES

APOSTLESHIP OF PRAYER

in union with

THE LEAGUE OF THE SACRED HEART

The object of the Apostleship and League is to promote interest in the great movements of the times for the true welfare of mankind, by uniting prayers and good works with the intention of the Sacred Heart of Jesus. Devotions to the Sacred Heart are held on all the First Fridays. Membership is confined to the students who have received their First Holy Communion. Number of members, 400.

PROMOTERS

Non-Resident Students

Agnew, Paul
Fries, William
Hook, Joseph
Kette, Carl
Kramer, Justin
Kuhn, Joseph
Mueller, Francis
Roth, John
Swift, Leonard

Resident Students

Avery, William
Bahlmann, Herbert
Cummings, Francis
Decker, Herman
Donovan, George
Dunn, Gerald
Gaynor, Francis
Heile, Marcellus
Klein, Henry
Kranz, Bernard
Krusling, Otto
Morin, Ralson
O'Brien, Raymond
Ott, John
Oppenheim, Joseph
Seidensticker, William
Thill, Francis
Wintermeyer, Walter

SODALITY OF THE IMMACULATE CONCEPTION

The Sodality of the Immaculate Conception was established at the College in 1875. Its object is to foster in the hearts of the students a tender love for the Mother of God. The Sodality has special devotional exerciss every Saturday. Number of members, 215.

First Division Resident Students

OFFICERS

William Seidensticker ..... *President*
George Mahoney ..... *Vice-President*
Edward Purpus ..... *Secretary*
Edward Welch ..... *Treasurer*
Thomas Macklin ..... *Sacriston*

MEMBERS

Bauer, Clement
Behler, Clark
Crossin, John
Garcia, Prudencia
McCourt, Walter
Norckauer, Fred
Powers, James
Pfeiffer, Edward
Sherer, Frank
Shanahan, George
Skeffington, Vincent
Schmedinghoff, Aloys
Vandenbroek, Julian

St. Gregory Branch

OFFICERS

Eugene C. Gerlach ..... *President*
Raymond J. O'Brien ..... *Vice-President*
John F. Dillon ..... *Secretary*
Leo M. Walsh ..... *Treasurer*
Gerald E. Dunn ..... *Librarian*
Henry J. Klein ..... } *Sacristans*
Joseph A. Graham ..... }

MEMBERS

Dick, Joseph
Dugan, Francis
Edmondson, Emil
Hook, Joseph
Leichleitner, Edward
Moeller, Alphonse
Mueller, Francis
Oberlander, William
Rauen, Joseph
Reith, William
Ryan, Thomas
Ruhl, Edward
Reichert, John
Schmitt, Clarence
Sherry, Robert
Smith, Francis
Stuber, Carl
Synnett, Martin
Thill, Francis

Second Division Resident Students

OFFICERS

Stephen Gulinski ..... *President*
Eulogius Lause ..... *Vice-President*
Joseph Oppenheim ..... *Secretary*

MEMBERS

Albers, Herbert
Armstrong, John
Avery, Fred
Avery, William
Bahlmann, Herbert
Farrell, James
Farrell, Francis
Farrell, Vincent
Goldcamp, Francis
Greiwe, Clarence
Hanley, Robert
Hart, Harry
Hillery, Fred
Kessler, Fred
Nugent, Clarence
Oelerich, Clifford
Reitemeier, Walter
Schenk, Eugene
Schmitt, Charles
Schuchert, Charles
Sourd, Earl
Stagmeier, Paul
Windbiel, Joseph
Wynn, Howard

Third Division Resident Students

OFFICERS

Karl Kranz ..... *President*
Algert Menninger ..... *Vice-President*
Bernard Kranz ..... *Secretary*
Charles Meyer ..... *Treasurer*

MEMBERS

Casey, James
Clasgens, Cyril
Dillhoff, Edward
Donovan, George
Foley, John
Gerlach, Eugene
Goesling, Herbert
Gorman, Lawrence
Haile, Robert
Heile, Leonard
Hais, Elmer
Kovacic, Frank
Krusling, Otto
Leonard, Joseph
McEntee, Harold
Monning, Howard
Monning, Norbert
Morin, Ralson
Neutzling, Ralph
Olberding, Francis
Olberding, Paul
Ott, Spencer
Richter, Edwin
Roberts, Preston
Rolandelli, Jerome
Sanchez, Henry
Schlichte, Vincent
Schwietermann, John
Warren, Lawrence
Werder, Raymond
Werder, Vincent
Wintermeyer, Paul
Wintermeyer, Walter

Fourth Division Resident Students

OFFICERS

Frank Gaynor ..... *President*
Urban Leininger ..... *Vice-President*
Herman Decker ..... *Secretary*
Edward Kuntz ..... *Treasurer*
Edward Menninger ..... *Sacristan*

MEMBERS

Busch, Edward
Busch, Ralph
Busch, Eugene
Berning, Franklyn
Braun, Carl
Bohnert, Leander
Bohnert, Herbert
Corbett, Sylvester
Connolly, John
Dabbelt, George
DuBrul, Stephen
Eilerman, Robert
Ernst, Carl
Fien, Herman
Grote, Richard
Grote, William
Grote, Walter
Grills, George
Greiwe, Julian
Hornung, Leo
Heile, Marcellus
Keagler, Andrew
Moran, William
Muth, Richard
Meyers, Alphonse
Neutzling, Theodore
Ott, John
O'Brien, William
Stubbers, Joseph
Schroeter, Ivo
Spatz, John
Wasmuth, Robert
Wenstrup, Carl
Wenstrup, Edward
Winters, Edward
Wolf, Leo

Second Division Non-Resident Students

OFFICERS

Lyman Hall ..... *President*
Joseph Burns ..... *Vice-President*
Norman Hochwalt ..... *Secretary*

MEMBERS

Boesch, Horace
Burbridge, John
Finlayson, William
Goeckeler, Carl
Hieber, Raymond
Hochwalt, Cyril
Keuping, James
Kinstle, George
Kuhn, Joseph
Lause, Matthias
Lauterbach, Edwin
Leonard, Bryan
Schmidt, Waldimar
Sherry, William
Swift, Leonard
Trentman, Robert
Weber, Vincent

Third Division Non-Resident Students

OFFICERS

Philip Farley.....*President*
Albert Wald.....*Vice-President*
John Schleipeck.....*Secretary*
John Reynolds.....*Treasurer*
Andrew Kuntz.....*Librarian*
Leslie Cooper.....*Sacristan*

MEMBERS

Baczenas, John
Caulfield, John
Engel, Aloys
Farley, John
Haas, Albert
Hill, Chester
Emmet, Leo
Ohmer, Paul
McGreevy, Joseph
Maloney, Edward
Paulick, Louis
Rieger, Clitus
Robbeloth, Edward
Roth, John
Schlipf, Leonard
Schnorr, Edward
Schumacher, Ambroce
Teyber, John
Werner, William
Kreber, Leo

HOLY NAME SOCIETY

The Holy Name Society was organized amongst the students at the annual retreat, 1904. Its object is to prevent the use of profane and immodest language, and thus to promote the interests of the Holy Name of God.

The resident students are grouped by divisions, the non-resident students by classes. Branch meetings are held twice a month, and the Board of General Officers meets once a month. Number of members, 450.

GENERAL OFFICERS

Francis Mueller.....*President*
Eugene Gerlach.....*Vice-President*
Leo Walsh.....*Secretary*
John Dillon.....*Treasurer*
Raymond O'Brien.....*Librarian*

BRANCH OFFICERS

President	*Secretary*	*Treasurer*
1. Leo Walsh	Wm. Seidensticker	Edward Welch
2. Frank Thill	Julian Vandenbrock	Gerard Werder
3. Gerald Dunn	Carl Stuber	Paul Welch
4. Edward Gross	Herbert Bahlman	Henry Wickham
5. William Avery	Eulogius Lause	Harry Hart
6. James Farrell	Thomas Mahoney	Clarence Nugent
7. Ralson Moran	Albert Menninger	Elmer Hais
8. Lawrence Warren	Harry O'Leary	Spencer Ott
9. Leonard Heile	Ralph Neary	Myron Adams
10. Frank Gaynor	Edward Menninger	Urban Leining
11. Franklin Berning	George Grills	Carl Ernst

Non-Resident Students

1. Francis Mueller
2. Ralph Wirshing
3. Edward Hall
4. Edw. Lechleitner
5. John Reichert
6. Norbert Bergman
7. John Ledger
8. Charles Schneider
9. Edward Madigan

Alphonse Mahrt
Oscar Beringer
Cyril Hochwalt
Orville Donnelly
Norman Hochwalt
Joseph Hook
Karl Bornstraeger
Lawrence Seidl
Irvin Ostendorf

John Dillon
Daniel Maloney
Robert Schenk
John Reynolds
Wm. Sherry
Paul Ohmer
Carroll Melke
Raymond Carey
Fidele Satalia

ACOLYTHICAL SOCIETY

SENIOR MEMBERS

Cummings, Francis
Dick, Joseph
Dugan, Francis
Dunn, Gerald
Farrell, Henry
Farrell, Frank
Farrell, Vincent

Gerlach, Eugene
Graham, Joseph
Gross, Edward
Heile, Leonard
Klein, Henry
Krusling, Albert

Krusling, Otto
Macklin, Thomas
O'Brien, Raymond
Ruhl, Edward
Schmitt, Clarence
Thill, Francis
Walsh, Leo

JUNIOR MEMBERS

Braun, Karl
Bohnert, Herbert
Bohnert, Leander
Bush, Ralph
Decker, Herman
DuBrul, Stephen
Fahy, Francis

Fien, Herman
Gaynor, Francis
Kuntz, Edward
Leininger, Urban
Morin, Ralson
Neary, Ralph
Ott, John

Ott, Spencer
Pohlmann, Aloys
Spatz, John
Wasmuth, Robert
Wenstrup, Carl
Werder, Vincent
Wintermeyer, Walter

THE S. M. I. EXPONENT

The Exponent, a monthly magazine edited and published by the undergraduates, is the literary organ of the student body. The first number appeared in March, 1903. As its name indicates, The Exponent is an index of student life at St. Mary's Institute in all its varied phases. Each monthly issue contains representative work of the pupils in the various departments of philosophic and literary study in which their mental activity is exercised, and a detailed chronicle of the events of college life, which always proves of special interest to the wide circle of parents, relatives, and friends of the students.

EDITORIAL STAFF

Editor-in-Chief.....Francis M. Mueller, '12
Assistant Editor-in-Chief.....Leo M. Walsh, '13
Assistant Editor-in-Chief.....John Dillon, '13

ALUMNI NOTES

Eugene C. Gerlach, '12.....Raymond J. O'Brien, '13

ATHLETICS

LJUIS ROTTERMAN, '14

COLLEGE NOTES

Joseph Graham, '13 Robert Gray, '14

BUSINESS MANAGERS

John Weigand, '17 Edward R. Connelly, '12

George Kuntz, '16

SUBSCRIPTIONS

Allan Ochs, '12

MAILING

Martin Kuntz, '12

ST. MARY'S DRAMATIC ASSOCIATION

St. Mary's Dramatic Association was organized for the purpose of fosterinig and cultivating a taste for elocution, oratory, and the drama. Under its auspices entertainments have been given during the past year.

THE DIXIE MINSTRELS

At S. M. I. Hall, November 4, 5, and 8, 1911.

Tambo—Mr. Carlisle Howald

Bones—Mr. Julian Van Den Broek

Tambo—Mr. George Medley

Bones—Mr. Louis Clark

PROGRAMME

March—*"Promenade of the Coon Town Swells"* (Jouvet).... ..... Orchestra

(A) The Hall of Minstrelsy (A)

Interlocutor—Mr. Leo Walsh

During the performance the following numbers will be rendered:

Piece Characteristic, *"A Day in the Cottonfield,"* (Smith-Zublin) .....Orchestra

"Down in the Old Cherry Orchard".....Westman

Mr. Roland Bevan

"Big Black Moon" .....Stevens

Mr. Carlisle Howald

"The Preacher and the Bear".....Arzonia

Mr. Julian Van Den Broek

"Dreams, Just Dreams".....Snyder

Mr. Walter Blair

"Night and Day" .....Lloyd

Mr. John McDonough

"My Rosary" .....Nevin
Raymond O'Brien.
Characteristic Barn Dance, *"The Darkey's Dream"*.....Lansing
Orchestra

(B) Mr. Robert Ritzler (B)

In Monologue and Song, Impersonating Dutch, Italian and Negro Dialect
March, *"Cotton Time"* Daniels.....Orchestra

(C) The Peddler of "Very Nice" (C)

A Burlesque of the Trial Scene in the "Merchant of Venice"

CHARACTERS

Shylock, a Pawnbroker .....*Mr. Frank Thill*
Judge Bussell, of the Very Nice Police Court ....*Mr. John Dillon*
Antonio, the Peddler of Very Nice .....*Mr. Charles Shiels*
Bassanio, a Very Nice Young Man .....*Mr. Martin Kuntz*
Portia, a Very Nice Belle .....*Mr. Richard Berry*
No. 23, of the Very Nice Police Force .....*Mr. John McDonough*
A Very Nice Clerk .....*Mr. Henry Farrell*
March, "Echoes from Dixie" (Jouvet) .....*Orchestra*

Elocutionary Contest

For Gold Medal in the High School and Business Departments
December 20, 1911

1. March—*"Frat"* .....Barth
S. M. I. Orchestra
2. Recitation—*"Parting of Marmion and Douglas"*.....
.....Charles Meyer
3. Recitation—*"The Dying Baron"* .....Ralph Wirshing
4. Recitation—*"Maclain's Child"* .....Walter Wintermeyer
5. Recitation—*"The Thief on the Cross"* .....George Donovan
6. Novelette—*"Tete a Tete"* .....Thompson
S. M. I. Orchestra
7. Recitation—*"Tom"* ....Mathias Lause
8. Recitation—*"The Raven"* .....Joseph Ranen
9. Recitation—*"Bernardo del Carpio"* .....John Weigand
10. Awarding of the Monograms for the Football Season
11. Decision of the Judges ..... { Rev. John Gallagher / William A. Budroe / Joseph B. Murphy, '01
12. Waltz—*"Home, Sweet Home"* .....Ascher
S. M. I. Orchestra

HERMIGILD, or THE TWO CROWNS

April 21, April 23, 1912

March—*"The Victorious Phalanx"* .....Morse
S. M. I. Orchestra

Chorus—*Soldiers' Chorus from "Faust"*.....Ch. Gounod
S. M. I. Choir and Orchestra
March—*"Majestic"* .....Allen
S. M. I. Orchestra

ACT I

Overture—*"Dramatic"* .....Keler Bela

ACT II

Meditation—*"The Hermit"* .....Gruenwald

ACT III

Andante—*Religioso "Crucifix"* .....Faure

ACT IV

March—*"The Military Hero"*.....Kenneth
S. M. I. Orchestra

ACT V

March—*'In Royal Favor"* .....Potter
S. M. I. Orchestra

CAST OF CHARACTERS

Leovigild, King of the Visigoths .....*Eugene Gerlach*
Sons of Leovigild—
Hermigild ..... *Edward Purpus*
Recared .....*Mathias Lause*
Count Goswin, Chancellor of the Realm.....*Frank Thill*
Argimund, Duke and Comamnder-in-Chief .....*John Weigand*
Ambassadors of the King—
Count Sisbert .....*Ralph Wirsching*
Count Agilan .....*Joseph Graham*
Roderic, son of Goswin .....*Walter Wintermeyer*
Boso, Royal Officer and former Tutor of Hermigild.....
.....*Joseph Windbiel*
Utolf, friend of Hermigild .....*Edward Gross*
Claudius, Sevilian Officer .....*Martin Kuntz*
Fredegisel, Peddler and Traitor .....*Harry Taif*
Beoulf, Blacksmith in Seville .....*Frank Mahoney*
Greek Ambassador .....*George Kuntz*
Lieutenant ..... *Joseph Windbiel*
Servant .....*George Kuntz*
Jailer .....*Frank Mahoney*
Officers of the Visigoths—
Otulf .....*Frank Farrell*
Teias .....*William Avery*
Soldiers of the Visiogths—
Earl Sourd, Fred Hillery, Fred Avery, Doyle De Maro.
Citizens of Seville—
Alphonse Schumacher, Stephan Gulinski, Edward Hall, Hugo Sacksteder, James McMahon.
Property Men—George Mahoney, Frank Mahoney, Walter Mccourt, George Shanahan.

Oratorical Contest for the Griffith Gold Medal

April 30, 1912

1. March—*"U. S. Cadets"* (S. M. I. Orchestra..H. A. Hale, Jr.
2. *"Mother"* (Oration) .....Raymond O'Brien
3. *"Theodore Roosevelt"* (Oration) .....John Dillon
4. *"When Teddy Comes Marching Home"* (S. M. I. Or-.... chestra) ..... Sabel
5. *"Religion in Education"* (Oration) .....Francis M. Mueller
6. *"Daniel Webster"* (Oration) .....Emil Edmondson
7. *"Spanish Dance,"* No. 8, Op. 26 (S. M. I. Orchestra) ..... Sarasate
   Violin, Robert Schenk, '16
8. *"The Destiny of America"* (Oration) .....Joseph Graham
9. *"Peace"* (Oration) ..... Eugene Gerlach
10. *"Killarney, My Home O'er the Sea"* (S. M. I. Orchestra) ..... *Logan*
11. *"Mother"* (Oration) .....Robert E. Gray
12. *"Ireland and the Irish People"* (Oration) .....Leo Walsh
13. *"Toy Symphony"* (S. M. I. Orchestra) .....J. Hayden
14. Awarding of Monograms to Basket Ball Team
15. Decision of Judges..... { Rev. B. G. Kuhlman, D. D.
Albert Moorman, M. D.
Melrose Kopf, Ph. D.
16. March—*"America"* .....Tellam
    S. M. I. Orchestra

THE LONGFELLOW LITERARY CIRCLE

of Second High B.

Officers

John Reichert .....*President*
William Finlayson .....*Vice-President*
William Sherry .....*Secretary*
Bryan Leonard .....*Treasurer*
Norman Hochwalt .....*Librarian*
Carl Stuber .....*Business Manager*

Members

Boesch, Horace
Burns, Joseph
Dohse, Quentin
Farrell, James
Farrell, Thomas
Goeckeler, Carl
Gorman, Lawrence
Herkenhoff, Alfred
Hieber, Raymond
Hogan, John
Keuping, James
Kinstle, George
Kuhn, Joseph
Lause, Matthias
Lauterbach, Edwin
Olberding, Francis
Powers, James
Rigney, George
Sacksteder, Norbert
Schmidt, Waldemar
Trentman, Robert
Weber, Vincent

THE COLUMBIAN LITERARY CIRCLE

Second High C

OFFICERS

Charles Meyer ..... *President*
Orville Donnelly ..... *Vice-President*
Albert Wald ..... *Secretary*
John Reynolds ..... *Treasurer*

MEMBERS

Baczenas, John
Cooper, Leslie
Cullen, Rodney
Cummings, Frank
Durbin, Andrew
Farley, Philip
Fries, Robert
Ganster, Earl
Hayes, Celestine
Kuntz, Andrew
Kreber, Leo
Manche, Carl
McGarry, Leo
O'Leary, Harry
Reitemeier, Walter
Richter, Edwin
Robbeloth, Edward
Roche, Thomas
Roth, John
Schenk, Eugene
Schleipeck, John
Schmitt, Charles
Teigler, George
Werner, William

ST. MARY'S ORCHESTRA

LOUIS VOGT, S.M., *Director*

Robert Schenk ..... Concert Master
Alfred Hein ..... First Violin
John Saum ..... First Violin
Calvin Saum ..... First Violin
John Gunzelmann, S. M. ..... Second Violin
Clifford Oelerich ..... Second Violin
M. Schlimmer ..... Second Violin
Frederick Hartwich, S. M. ..... Viola
George Deck, S. M. ..... Cello
John Hallameyer, S. M. ..... Bass
William Hetzler ..... Flute
William Reynolds ..... First Clarinet
Joseph Saum ..... First Clarinet
Gerard Werder ..... Second Clarinet
Prudencio Garcia ..... Oboe
Ira Morningstar ..... Tenor Saxophone
William Freund ..... First Cornet
Frederick Moehring ..... Second Cornet
Frederick Norckauer ..... Trombone
J. W. Zubrod ..... Trombone
Frank Dugan ..... Bass Drum
Theodore Oppenheim ..... Cymbals and Drum
W. H. Schaefer ..... Snare Drum and Tympani
Robert Holzmer, S. M. ..... Piano
Frank Dugan ..... Piano
Walter Blaire ..... Piano

Mandolin Club

Charles Rauch, Leader and Instructor

Edward Hall, Torrence Makely .....First Mandolin
William Fogarty, Charles Shiels .....Second Mandolin
Wendell McCulloch .....Guitar

ST. MARY'S CHOIR MEMBERS

Robert Holzmer, S.M., William Schumacher, S.M., *Directors*

Soprano

Busch, Edward
Busch, Eugene
Boesch, Horace
Bohnert, Herbert
Bohnert, Leander
Bubolz, Adalbert
Connolly, John
Edmondson, George
Eilerman, Robert
Greiwe, Julian
Grote, Richard
Grote, Walter
Grote, William
Heile, Marcellus
Hill, Chester
Hill, Hayden
Hieber, Raymond
Hornung, Leo
Keagler, Andrew
Kelly, John
Keuping, James
Kuntz, Andrew
Klenke, Gerhard
Koors, Irvin
Ledger, John
Mastbaum, Vincent
Menninger, Edward
Melke, Carroll
Muth, Richard
Neutzling, Theodore
Ostendorf, Irvin
Paulich, Louis
Rigney, George
Robbeloth, Edward
Roth, Edward
Schoening, Albert
Schoening, Martin
Schroeter, Ivo
Wasmuth, Robert
Weinert, Henry
Wentstrup, Edward
Wentstrup, Richard
Winters, Edward
Wolf, Leo
Weed, Harold

Alto

Berning, Franklin
Busch, Ralph
Casey, James
Cetinski, Coleman
Ernst, Carl
Gaynor, Frank
Gorman, Lawrence
Hickey, Charles
Hickey, William
Klopp, George
Lause, Matthias
Long, George
Menninger, Lawrence
McGarry, Leo
Morman, William
O'Brien, William
Smith, Charles
Stubbers, Joseph

Tenor and Bass

Avery, William
Cullen, Rodney
DeMaro, Doyle
Farrell, Frank
Farrell, Vincent
Geiger, August
Greiwe, Clarence
Gulinski, Stephen
Hillery, Fred
Oberlander, John
Oelrich, Clifford
Oppenheim, Joseph
Schenk, Eugene
Sourd, Earl
Stowell, Allen
Windbiel, Joseph
Wynne, Harold

SENIOR GLEE CLUB

George Binlein, S. M., *Director*

Frank Dugan, *Pianist*

First Tenor

Frank Medley
Raymond O'Brien
Julian VanDenbroek

Second Tenor

Herman Feidner
Prudencia Garcia
Walter McCourt
Edward Pfeifer
Joseph Rauen
George Shanahan
Edward Welch
John Crossin
Charles Shiels

Baritone

Joseph Dick
Carlisle Howald
Frank Mahoney
Edward Kenney
Edward Ruhl
Frank Thill
Gerard Werder
Andrew Nickol, S. M.

Basso

George Medley
Harry Taif
Edward Purpus
Lawrence Drufner, S. M.

ST. MARY'S ATHLETIC ASSOCIATION

FOOTBALL BASEBALL BASKET-BALL
TRACK TENNIS

OFFICERS

Leo Walsh ..... *President*
Alphonse Mahrt ..... *Vice-President*
John Dillon ..... *Secretary*
James Hall ..... *Treasurer*
William Seidensticker ..... *Business Manager*
Frederick G. Paff, S. M. ..... *Moderator*

MEMBERS

Anderson, Leon
Armstrong, John
Bahlman, Herbert
Bauer, Clement
Behler, Clark
Berghoff, John
Blair, Walter
Bosler, Ned
Bradmiller, Edwin
Braun, Clarence
Burkhardt, Walter
Cole, Edwin
Connelly, Edward
Creedon, Charles
Crossin, John
Dick, Joseph
Hook, Herbert
Howald, Carlisle
Klein, Henry
Kenney, Edward
Kline, John
Kuntz, George
Kuntz, Martin
Kuntz, William
Lause, Eulogius
Macklin, Thomas
Mahoney, George
Mahoney, Frank
Mahrt, Alphonse
Makely, Torrence
Medley, Frank
Medley, George
Ruhl, Edward
Ryan, Carl
Ryan, Thomas
Schenk, Robert
Scherer, Frank
Schmedinghoff, Aloys
Schumacher, Alphonse
Schmitt, Clarence
Seidensticker, William
Shanahan, George
Sherlock, Edward
Sherry, Robert
Shiels, Charles
Shuey, Raymond
Smirnoff, Vladimir
Smith, Frank

Dillon, John
Dugan, Frank
Dunn, Gerald
Durbin, Andrew
DeMaro, Doyle
Edmondson, Emil
Farrell, Frank
Farrell, Henry
Feidner, Herman
Fogarty, William
Freeman, Eugene
Garcia, Prudencia
Gerlach, Eugene
Goldcamp, Frank
Graham, Joseph
Gray, Robert
Gulinski, Stephen
Hall, Edward
Hall, James
Hart, Harry
Hays, Clement
Herkenhoff, Albert
Hogan, Edward
Meyer, Joseph
Mueller, Francis
Norckauer, Frederick
Newnam, Russell
O'Brien, Raymond
O'Connell, Robert
Ochs, Allan
Oppenheim, Joseph
Petereit, Bernard
Pfeifer, Edward
Powers, James
Purpus, Edward
Quinlan, Lester
Rauen, Joseph
Reitemeier, Walter
Reith, William
Reiser, Theodore
Robin, Russell
Roehm, Louis
Rottermann, Eugene
Rottermann, Louis
Rudolph, Carl
Sourd, Earl
Stowell, Allen
Stuber, Carl
Sturm, Fred
Swift, Leonard
Synnett, Martin
Taif, Harry
Thill, Frank
Underwood, Russell
VanDenbrock, Julian
Walsh, Leo
Welch, Edward
Welch, Paul
Werder, Gerard
Weaver, Leo
Wickham, Henry
Wynne, Howald
Walsh, Henry
Wirshing, Ralph
Wollenhaupt, Ralph
Wunderlich, Orville
Weidner, Walter
Zimmerman, Carl

REGISTER OF GRADUATES

COLLEGIATE DEPARTMENT

Charles J. Sherer '85 ..... Dayton, Ohio
Joseph B. Stagge, '86 ..... Cincinnati, Ohio
Thomas J. Conway, '87 ..... Santa Rosa, Cal.
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THE GOLD MEDAL FOR GENERAL EXCELLENCE IN THE
FIRST HIGH-B CLASS
awarded to
PAUL OHMER

THE GOLD MEDAL FOR ELOCUTION
awarded to
WALTER H. WINTERMEYER

COLLEGE OF ARTS AND LETTERS

The Collegiate Department purposes to offer to the student the time and opportunity to further cultivate and to bring to maturity the qualities of mind and heart and will that have been nourished to great extent in the Academic or High School Department. To attain this end a greater latitude is permitted in the selection of studies. The studies of the Collegiate Department are divided into three groups, leading to the degrees Bachelor of Arts, Bachelor of Letters, and Bachelor of Science. The selection of studies is made with the advice of and in consultation with members of the faculty designated for this purpose, and with the approval of the Prefect of Studies. Christian Doctrine, Philosophy, and English are considered fundamental studies for all degrees. Latin and Greek are characteristic studies for students wishing to obtain the degree of Bachelor of Arts. Latin, History, and Modern Languages are characteristic studies for candidates aspiring to the degree of Bachelor of Letters.

Candidates desiring a course in General Science with a view of preparing for teaching the same, may arrange for a course with the faculty. An extensive study of mathematics will form an essential feature. Upon the successful completion of the course, the degree of Bachelor of Science will be awarded.

REQUIREMENTS OF ADMISSION to the COLLEGE OF ARTS AND LETTERS

Candidates for admission to the College of Arts and Letters must be sixteen years old. They must give evidence of having completed satisfactorily an amount of preparatory work equal to fifteen units. By a unit is meant a subject pursued throughout the year, comprising four or five recitations per week or one hundred and ninety periods of sixty minutes each. Studies pursued for half a year entitle to half a unit.

In the case of graduates of a preparatory school or high school having a four-years' course, the diploma of graduation may be accepted in lieu of an examination of admission.

In the latter case blanks of admission will be supplied by St. Mary's Institute, which must be filled out and signed by the proper authority of the preparatory school or high school.

The subjects of the fifteen units required for admission are arranged in two groups.

GROUP I.	REQUIRED SUBJECTS	11 UNITS
Algebra	To Quadratics	1 unit
Geometry	Plane	1 unit
English	Composition and Rhetoric	2 units
Latin	Grammar, Version, Composition	3 units
Languages	Greek or French or German	2 units
History	Ancient and Modern	1 unit
Sciences	Physical or Natural	1 unit

GROUP II.	OPTIONAL SUBJECTS	4 UNITS
Algebra	Through Quadratics	½ unit
Geometry	Solid	½ unit
Latin	Advanced	1 to 4 units
German	Advanced	1 to 4 units
Greek	Elementary	1 to 3 units
Trignometry	Plane	½ unit
History	American, Civics	1 unit
Astronomy	Descriptive	½ unit
Descriptive		½ unit
Free Hand Drawing		½ unit
Mechanical Drawing		½ unit
Botany, Zoölogy, Physiology, Physiography, each		½ unit

COLLEGE OF ARTS AND LETTERS

Faculty

Rev. Bernard P. O'Reilly, S. M.
President

Rev. Lawrence Yeske, S. M.
Vice-President
French, Latin

Rev. Aloys Schratz, S. M.
Religion, Philosophy, Greek

Rev. Joseph Tezlaff, S. M.
Latin, Greek

Bro. Adam Hofmann, S. M.
French, Mathematics

Bro. William Wohlleben, S. M.
Chemistry

Bro. Ulrich Rappel, S. M.
Physical Science

Bro. Francis O'Reilly, S. M.
English

Rev. John Ott, S. M.
Religion, English, History

Bro. Thomas Mooney, S. M.
Librarian

Bro. William Beck, S. M.
Mathematics

Bro. Louis Vogt, S. M.
Violin, Orchestra

Mr. Louis Kelly
Piano

Mr. Emil Hocke
Physical Instructor

Prefects

Bro. Frederick Paff, S. M.
First Division, Resident Students

Bro. James Schoendorf, S. M.
Second Division, Resident Students

Bro. George Schneider, S. M.
Third Division, Resident Students

Bro. John Reuss, S. M.
Fourth Division, Resident Students

Bro. Henry Hemmert, S. M.
Non-Resident Students

COLLEGE PHYSICIANS

Wm. Plattfaut, M. D., office hours, 8-10 a. m., 7-8 p. m.

D. G. Reilly, M. D., office hours, 8-9 a. m., 1-3 p. m., 7-8 p. m.

G. A. Hochwalt, M. D., office hours, 8-9 a. m., 2-3 p. m., 7-8 p. m.

A. J. Moorman, M. D., office hours, 8-10 a. m., 1-3 p. m., 7-8. p. m.

Horace Bonner, M. D., office hours, 9-12 a. m., 1:30-4:30 p. m., *Specialist in Eye, Ear, Nose and Throat Diseases.*

Bowman and White, Dentists.

H. C. McClelland, Dentist.

John C. Eberhardt, Optician.

Studies Prescribed for the Degree of Bachelor of Arts

FRESHMAN YEAR

First Term

	Hours
Religion (20)	1½
English (50 a, b, c)	3
History (80)	2
Latin (30)	5
Greek (40)	5

Second Term

	Hours
Religion (20)	1½
English (51 a, b, c)	3
History (81)	2
Latin (31)	5
Greek (41)	5

SOPHOMORE YEAR

First Term

	Hours
Religion (22)	1½
English (52 a, b, c)	3
History (82)	2
Latin (32)	5
Greek (42)	5

Second Term

	Hours
Religion (22)	1½
English (53 a, b, c)	3
History (83)	2
Latin (33)	5
Greek (43)	5

JUNIOR YEAR

First Term

	Hours
Religion (23)	1½
Philosophy (25)	5
English (54 a, b, c)	3
Latin (34)	5
Greek (44)	5
History (84)	2

Second Term

	Hours
Religion (23)	1½
Philosophy (26)	5
English ((55 a, b, c)	3
Latin (35)	5
Greek (45)	5
History (85)	2

SENIOR YEAR

First Term

	Hours
Religion (24)	1½
Metaphysics (27)	5
Ethics (28)	1
English (56 a, b)	3
Latin (36)	5
Greek (46)	3

Second Term

	Hours
Religion (24)	1½
Hist. of Phil. (29)	5
Ethics (28)	1
English (57 a, b)	3
Latin (37)	5
Greek (46)	3

Studies Prescribed for the Degree of Bachelor of Letters

FRESHMAN YEAR

First Term

	Hours
Religion (20)	1½
English (50 a, b, c)	3
History (80)	2
Latin (30)	5
French (70)	3
German (60)	2

Second Term

	Hours
Religion (20)	1½
English (51 a, b, c)	3
History (81)	2
Latin (31)	5
French (71)	3
German (61)	2

SOPHOMORE YEAR

First Term

	Hours
Religion (22)	1½
English (52 a, b, c)	3
History (81)	2
Latin (32)	5
French (72)	3
German (62)	2

Second Term

	Hours
Religion (22)	1½
English (53 a, b, c)	3
History (83)	2
Latin (33)	5
French (73)	3
German (63)	2

JUNIOR YEAR

First Term

	Hours
Religion (23)	1½
English (54 a, b, c)	3
Logic (25)	5
Latin (34)	5
French (74)	3
German (64)	2
History (84)	2

Second Term

	Hours
Religion (23)	1½
English (55 a, b, c)	3
Psychology (26)	5
Latin (35)	5
French (75)	3
German (65)	2
History (85)	2

SENIOR YEAR

First Term

	Hours
Religion (24)	1½
English (65 a, b)	3
Ethics (29)	1
Metaphysics (28)	5
Latin (36)	5
French (76)	1
German (66)	1

Second Term

	Hours
Religion (24)	1½
English (57 a, b)	3
Ethics (27)	1
Philosophy (29) History	5
Latin (37)	5
French (77)	1
German (67)	1

SUBJECTS OF INSTRUCTION

THE COLLEGE OF ARTS AND LETTERS

Moral

Freshman Year. One and One-half Hours per Week.

20. Nature and Distinction of Laws; Conscience; Sin; Virtue; Precepts of the Decalogue; Forms of Worship; Oaths and Vows; Obligation of Hearing Mass; Suicide; Murder; Scandal; Dueling; Duty and Right; Violation of Rights; Restitution; Contracts; Fraud; Lying; Detraction; Calumny; Violation of the Secret; Commandments of the Church; Fasting and Abstinence; Laws of Marriage; Christian Perfection; Evangelical Counsels; States of Life; Vocation. The Sacraments; Confession, Holy Communion, Holy Orders, Matrimony. Feasts, Ceremonies and Religious Practices of the Church.

Dogma

Sophomore Year. One and One-half Hours per Week.

22. The Holy Religion; God, His Essence and Attributes; Blessed Trinity; Creation of the World; the Angels; Man, Original Sin; the Incarnation; Jesus Christ in Prophecy, on Earth, in Glory; the Work of Jesus Christ; Grace; Merit; Essence and Existence of the Sacraments, Effects and Efficacy of the Sacraments; Indulgences; Virtue; Four Last Things.

Christian Apologetics

Junior Year. One and One-half Hours per Week.

23. 1. Religion, Revelation, Function, of Reason in matters of Faith.

2. Historical value of the Sacred Scriptures. The Pentateuch; the Pentateuch and Science—Geology, Astronomy, Biology; Paleontology. The Bible and modern discoveries in Egypt, Assyria, and Chaldea. Historical valeu of the Gospels.

3. Demonstration of the Divinity of the Christian religion. Miracles and Prophecies, Phenomenon of Hypnotism. Ten proofs of the Divinity of the mission of Jesus Christ and His work, the establishment of the Christian Religion. Christianity and Buddhism, Christian Science and Faith Cure. Truth of the Catholic Religion. (1) The Roman Catholic Church possesses the four

positive marks of the true Church. Protestantism. The Oriental Schismatic Church. Prerogatives conferred by Jesus Christ upon the Church. (2) Accusations brought against the Church. Intolerance; the Vicious Circle; the Inquisition; Galileo; Massacres of St. Barholomew; Crusades; Wars of Religion; Revocation of the Edict of Nantes; Temporal Power of the Popes; Authority of the Popes in the Middle Ages; Bad Popes; the Church and Civilization.

Rational Theology

Senior Year. One and One-half Hours per Week.

24. 1 Definition and scope. Relations to Dogmatic Theology. The Existence of God. Necessity of demonstrating the existence of God. Demonstration; arguments from motion, contingency, casuality, axiomatic truths, duty, moral sanctions, relativity, design; ontological argument. Atheism; Idealistic Atheism, Materialistic Atheism, Practical Atheism, Religious and Moral Consequences of Atheism.

2. Nature and Atrributes of God; Manner of Determining the Attributes of God; the Essence of God, and His metaphysical attributes, simplicity, perfection; idea of the infinite; immutability, eternity, unity, omnipresence. Moral attributes of God or the divine personality; God's knowledge; divine knowledge and human knowledge; divine knowledge and human liberty; divine will. Pantheism among the ancients, in the Middle Ages. Modern antheists, Spinoza's theory of substance, Fichte, Shelling, Hegel, Anthropormorphism.

3. Creation and Evolution: Creation according to St. Thomas; evolution according to the Fathers; evolution and the Bible.

PHILOSOPHY

1. Junior Year. Psychology. Five Hours per Week.

25. Object of Psychology: The Facts of Consciousness; The Faculties of the Soul; the Soul; Method of Experimental Psycchology.

Treatise on Sensibility: Sense Perception; Consciousness of Sensations; Pleasure and Pain; the Mental Image; the Memory; Association of Ideas; Instinct; Appetency and Passion; the Motor Faculty.

Treatise on the Intellect: Attention; Abstraction; Generalization; Conception; Judgment; Reasoning; First Principles.

Treatise on the Will: Nature of the Will; Moral Liberty; Determinism.

Logis. Five Hours per Week.

26. General Introduction; Object of Logic; Divisions of Logic; Plan of Logic.

FORMAL LOGIC: On Concepts and Terms; The Proposition; The Syllogism.

APPLIIED LOGIC OR METHODOLOGY: On Method in General; Demonstration; Mathematical Demonstration; Method of the Physical Sciences; Method of the Natural Sciences; Method of the Moral Sciences; Errors and Sophisms; Truth and Science; The Principal Scientific Hypotheses.

Senior Year. Metaphysics. Five Hours per Week.

27. General Introduction; Nature of the Subject; Certitude of Metaphysical Inquiry; The Method of Metaphysics.

TREATISE ON ONTOLOGY: Nature of Being; Attributes of Being; the True; The Beautiful; Art; The Esthetic Faculties; The Good.

TREATISE ON COSMOLOGY: The Existence of Eternal Reality; Matter; Motion; Life.

TREATISE ON RATIONAL PSYCHOLOGY: Naure of the Soul; The Union of the Body and Soul; The Soul Separated from the Body.

TREATISE ON THEODICY: The Existence of God; Nature and Attributes of God; Pantheism; Creation and Evolution.

Ethics.

28. A General View of the Science of Ethics. Conscience; Good and Duty; Merit; Responsibility and Sanction; Individual Ethics; Domestic Ethics; Social Ethics; Religious Ethics; Ethics and Political Economy.

History of Philosophy. Five Hours per Week.

29. General Introduction; Science according to Aristotle; Science according to Bacon; Science according to Comte; Definition of Philosophy; Oriental Philosophy; Grreek Philosophy before Socrates; Plato, Aristotle; Philosophy of Rome; Scholastic Philosophy; Philosophy during the Renaissance; Bacon, Descartes, Malebranche, Spinoza, Leibnitz, Locke, Berkeley, Hume, Reid, Condillac, Kant; Contemporaneous Philosophy, Neo-Scholastic Philosophy.

LATIN

Freshman Year. Five Hours a Week.

30. Cicero, Pro Archia; Virgil, Book VI; Horace, Select Odes. Latin versification two hours a week. Latin composition and translation each two hours a week.

31. Cicero, Pro Marcello; De Senectute; De Amicitia. Horace, Ars Poetica.

Sight Reading, New Testament. Latin versification two hours a week. Latin composition and translation each two hours a week.

Sophomore Year. Five Hours a Week.

32. Horace, Epistles and Satires; Tacitus, Agricola.

Latin composition and translation each two hours a week. Latin versification twice a month.

33. Virgil, Georgics; Tacitus, Annals.

Latin Literature. Early writers to Cicero. Bi-monthly exercise in Latin versification. Latin composition and transaltion each two hours a week.

Junior Year. Five Hours a Week.

34. Pliny, Letters; Juvenal, Satires; Seneca, Essays.

Latin Literature, Augustan writers and writers of the subsequent epochs.

35. Cicero, De Officiis; Plautus, Captivi; Selections from the Fathers.

Comparative study of Greek and Latin Literatures. Weekly exercises in Latin composition and translation. Bi-monthly exercise in Latin versification.

Latin conversation is a feature in all the classes.

Senior Year. Five Hours a Week.

36. Terence, Andria; Quintilian, Books X. and XII. Weekly exercises in Latin composition and translation. Bi-monthly exercise in Latin versification.

37. Cicero, Quaestiones Tusculanae; Seneca, Three Tragedies. Weekly exercises, as above.

GREEK

Freshman Year. Five Hours a Week.

40. Grammar (Kaegi Kleist): Inflection; declension; conjugation of paideuo. Translations and themes. First lessons in Greek (Kaegi Kleist). New Testament (N. J. Stoffel, C. S. C.)

41. Grammar: From the conjugation of paideuo to end of inflections. Versions and themes.

Aesop Fables. Greek Literature.

Sophomore Year. Five Hours a Week.

42. Inflections reviewed. Syntax of Articles, noun, pronoun. Translation exercises based on the authors. Greek Literature.

Xenophon, Anabasis; Lucian, Dialogues; Herodotus, Extracts.

43. Grammar: Syntax to end. Translation exercises based on the authors.

Aeschylus, Agamemnon, or Persae, or Prometheus Vinctus; St. John Chrysostom, Eutropius; Homer, Iliad, Book I.

Junior Year. Five Hours a Week.

44. Grammar: Review of entire Syntax. Translation and composition based on the authors.

Sophocles, Oedipus Rex; Philoctetes; Plato, Apology; Homer, Odyssey, Book I.

45. Euripedes, Iphigenia in Aulis, or Medea, or Alcestis; Demosthenes, Philippics or De Corona; Aristophanes, Birds.

Senior Year. Three Hours a Week.

46. Plutarch, Lives; Plato, Phædo. Lyrics from Greek poets; Sappho, Pindar.

ENGLISH

Freshman Year. Three Hours a Week.

50a. *Literary Criticism.*

Sentence; Paragraph; Complete Composition; Sublimity; Beauty; Wit and Humor; Melody; Personality in Literary Art.

The Letter: of Friendship; News Letter; Open Letter; History of the Letter; The Letter in Hebrew, Greek, and Latin Literatur.

Letters of Cicero, Pliny, Lord Chesterfield, Pascal, Newman.

b. *Oratory and Forensics.*

Qualities; Plan; Apeal to Passions; Argument; Style; Modern Influences; History of Oratory; Representative Oratory.

Public Speaking; Debating; Extempore Speaking; Principles of Argumentation.

For Reference: Depew, Library of Oratory; Bautain, Art of Speaking; Raymond, Orator's Manual; Coppens, Oratorical Composition; Shurter, Public Speaking.

c. *English Classics.*

As You Like It; Speeches of Burke, O'Connell, Webster, Cicero, Demosthenes.

51a. *Literary Criticism.*

The ESSAY: Modern Use; Tracts and Pamphlets; Editorials; Representative Essayists-Plutarch, Xenophon, Cicero, Pliny, Bacon, Addison, Macaulay, Matthew Arnold.

BIOGRAPHY: Sources of Biography; Kinds—Obituary, Eulogy, Diatribe, Philippic, Critique, Private Papers, Private Journal, Memoirs, Letters. Representative Biographers—Boswell, Morley, Plutarch, Southey.

HISTORY: Historical Interpretation; Prejudice; Modern Scientific Method.

Noted Historians—Guizot, Hume, Macaulay, Hallam, Linguard, Prescott, Bancroft.

POETRY: Elements of Versification; The Epic, Lyric, Pastoral, Ode, Sonnet. Characteristics of authors and general poetic values.

b. *English Literature.*

THE FORMATIVE PERIOD.

1. The Anglo Saxon or Old English Period.
   Beowulf; the Seafarer; Our First Speech; Bede, Caedmon; Alfred.
2. The Anglo Norman Period.
   The Norman Conquest; Literary Ideals of the Normans; Geoffrey of Monmouth; Layamont.
3. The Age of Chaucer.
   Langland; Wickliffe; Mandeville; Wyatt; Surrey; Mallory.

For Reference: cf 53a.

51c. *English Classics.*

Richard III.; The Tempest; Canterbury Tales; Bacon, Emerson, Spalding, Azarias, Essays; De Coverley Papers.

Sophomore Year. Three Hours a Week.

52a. *English Literature.*

THE ELIZABETHAN PERIOD.

Character of the Elizabethan Age.

The Non-Dramatic Poets—Spencer, Sackville, Sydney, Drayton.

Brief Study of the Drama; Shakespeare's Predecessor, Marlowe; Shakespeare, himself; His Contemporaries and Successors—Ben Johnson, Beaumont, and Fletcher, Webster, Middleton, Haywood, Messinger.

Prose Writers: Bacon, Hooker, Raleigh.

THE MODERN PERIOD.

1. The Puritan Age.
   Literary Characteristics.
   Metaphysical Poets: Hubert, Herrick, Milton.
   Prose Writers: Bunyan, Taylor, Walton.
2. The Period of Restoration.
   Literary Characteristics.
   Authors: Dryden, Butler.

For Reference: cf 53a.

b. *The Short Story.*

The Rise and Place of the Short Story; Nature and Kinds of the Short Story.

Sructure of the Short Story; Theme, Material, Plot, Plot Development, Opening of the Story, Setting and Body of the Story.

For Reference: cf 53b.

c. *English Classics.*

Hamlet, King Lear; Spenser, Faery Queen; Milton, Paradise Lost, Lycidas.

53a. *English Literature.*

THE MODERN PERIOD.

1. The Age of Classicism.
   Literary Characteristics.
   Authors: Pope, Swift, Addison, Johnson, Burke.
   The Revival of Romantic Poetry: Gray, Goldsmith, Cowper, Burns.
   The First English Novelists: Defoe, Richardson, Fielding, Smollett.
2. The Age of Romanticism.
   Literary Characteristics.
   Poets: Wordsworth, Coleridge, Southey, Scott, Byron, Shelley, Keats.
   Prose Writers: Lamb, De Quincey, Austen, Landor.
3. The Victorian Age.
   Literary Characteristics.
   Poets: Tennyson, Browning, Morris, Swinburne.
   Novelists: Dickens, Thackeray, Eliot, Bulwer Lytton, Blackmore, Meredith, Stevenson.
   Essayists: Macaulay, Carlyle, Ruskin, Matthew Arnold, Newman.
   The Spirit of Modern Literature.
   The Catholic Revival.

For Reference: Garnett and Goss, Illustrated History of English Literature; Jusserand, Literary History of the English People; Saintsbury, History of Elizabethan Literature; Stedman, Victorian Poets; Hazlitt, Lecture on the English Poets; Dowden, Studies in Literature; Minto, Characteristics of English Poets; Courthope, History of English Poetry; Lowell, Literary Essays; Palgrave, Golden Treasury; Jenkin's Literature; Brooke, Early English Literature; Crawshaw, The Making of English Literature.

b. *The Short Story.*

Structure (cont.)—Characters, dialogue, title, style, special characters.

Preparation for Authorship—Originality, talent, acquiring of vocabulary, the study of the short story.

The Manuscript and its Market—Writing the Story, Selling the Story.

For Reference: Brander Matthews, The Short Story, The Philosophy of the Short Story.

c. *English Classics.*

Pope, The Rape of the Lock; Milton, Ode on Immortality; Wordsworth, Keats, Shelley, and Browning. Poems; Tennyson, The Princess, The Idylls of the King.

Junior Year.

54a. *American Literature.*

THE PERIOD OF BEGINNINGS (1608-1809).

The Colonial Writers: Smith, Mather, Edwards.

The Revolutionary Writers: Henry, Jefferson, Hamilton, Frenau, Franklin.

THE PERIOD OF ACHIEVEMENT (1809-1870).

The Knickerbocker School: Irving, Cooper, Bryant.

The New England Group—Poets and Essayists: Emerson, Longfellow, Whittier, Lowell, Holmes, Thoreau.

For Reference: cf 55a.

b. *Study of the Novel.*

Origin of the Novel: Elements, Egyptian Tales, Greek, Romances, Mediæval Conglomerates, The Modern Novel.

For Reference: cf 55b.

c. *English Classics.*

Newman, Idea of a University; Scott, Quentin Durward; Thackeray, Henry Esmond; Dickens, Pickwick, Papers; Lowell, Among my Books; Holmes, Poems; Emerson, Essays.

55a. *American Literature.*

THE PERIOD OF ACHIEVEMENT (cont.).

The New England Group—Orators, Novelists, Historians: Webster, Hawthorne, Stowe, Bancroft, Prescott, Parkman, Motley.

Early Southern Writers: Simms, Poe, Hayne, Timrod.

Writers of the Middle States: Taylor, Whitman, Stoddard, Curtis.

THE PRESENT PERIOD (1870-1910).

New England since 1870: Stedman, Aldrich, Hale, Warner, Fiske.

The New South: Lanier, Cable, Harrison, Page, Allen.

Recent Writers of the Middle States: Burroughs, Howells, James, Crawford, Stockton.

The Rise of Western Literature: Harte, Clemens, Eggleston, Field, Riley.

For Reference: Stedman and Hutchinson, Library of American Literature; Johnson, History of American Literature; Underwood,

American Literature; Heydrick, Literature; Page, Chief American Poets; Trent and Wells, Colonial Prose and Poetry; Stedman, An American Anthology; Brownell, American Prose Masters.

b. *Study of the Novel.*

Development of the Modern Novel: Plot; Motive and Verisimilitude; Character; Background; Style.

For Reference: Horne, The Technique of the Novel; Hamilton, Materials and Methods of Fiction; Stevenson, A Gossip on Romance; Stoddard, A Study of the Novel; Saintsbury, The Historical Novel; Brander Matthews, Aspects of Fiction, The Historical Novel; Perry, A Study of Prose Fiction; Whitcomb, The Study of a Novel; Jack, Essays on the Novel; Dawson, Makers of English Fiction; Phelps, Essays on Modern Novelists.

c. *English Classics.*

Stedman, Poems; Bulwer Lytton, Last Days of Pompeii; Jane Porter, Scottish Chiefs; Othello; Reading of Modern Novels.

Senior Year. Three Hours a Week.

56a. *The Study of the Drama.*

The Drama—Its Law; Dramatic Unity; Nature and Sources of Tragic Effect; Nature and Sources of Comic effect.

Its Technique: The Two Types of Drama; Logical Divisions of the Drama; Mechanical Divisions of the Drama; Character-Treatment; Plot in Comedy; Character-Treatment in Comedy.

COMPARATIVE STUDY—THE ANCIENT DRAMA.

Greek Tragedy and Comedy; Origin and Development. Famous Authors.

For Reference: Moulton, Ancient Classical Dramas; Campbell, Guide to Greek Tragedy; Donaldson, The Theatre of the Greeks; Symmonds, The Greek Poets; Jevons, History of Greek Literature; Quinn, Helladian Vistas.

Roman Tragedy and Comedy: Origin and Development. Famous Authors.

For Reference: Brander Matthews, Development of the Drama; Sel'er, The Roman Poets of the Republic; Riley, Translation of Terrence and Plautus; Crutwell, History of Roman Literature.

Miracle and Mystery Plays: Origin and Development.

For Reference: Pollard, Miracle Plays.

French Comedy: Origin and Development.

For Reference: Fortier, Histoire de la Literature Francaise; Translation of Molliere's Works.

THE MODERN DRAMA.

French Tragedy: Origin and Development.
Authors: Corneille, Racine.

For Reference: Baudrillard, The Catholic Church, Renaissance and Protestantism; Fortier, Histoire de la Literature Francaise.

Spanish Drama: Origin and Development.
Authors: Lope de Vega, Calderon.

For Reference: Tichnor, History of Spanish Literature; McCarthy, Dramas of Calderon, Translated.

English Drama: Origin and Development.
Authors: Greene, Lyle, Marlowe, Shakespeare, Beaumont and Fletcher, Ben Johnson, Dryden, Wycherly.

For Reference: Moulton, Shakespeare as a Dramatic Artist; University Edition of Shakespeare's Works; Pollard, English Miracle Plays, Moralities and Interludes.

German Drama: Origin and Development.
Authors: Lessing, Schiller, Goethe.

For Reference: Baumgartner, Life of Goethe; Carlyle, Essays.

The Modern Romantic School. Authors: Rostand, Phillips, Ibsen, Sundermann, etc.

For Reference: Brander Matthews, Development of the Drama.

b. *English Classics.*

Midsummer Night's Dream, Twelfth Night; Azarias, The Philosophy of Literature. Reading from Sophocles, Aristophanes, Terence, Plautus, Molière, Corneille, Racine.

57a. *The Study of Foreign Literature.*

The Italian Renaissance: Age of Dante; Italian Influence on English Literature.

The Age of Classicism: French Influence on English Literature.

Comparative Study of Modern Literatures: English, French, German, Spanish, Italian.

For Reference: Botta, Handbook of Universal Literature; Wright, Masterpieces of Greek Literature; Dean Church, Essay on Dante; Ozanam, Dante and the Philosophy of the XIII. Century; Ruskin's Works; Lowell's Essays, Vol. IV.; Kelly, History and Criticism of Spanish Literature; Scherer, History of German Literature; Baumgartner, Weltliteratur.

b. *English Classics.*

Dante, Inferno; Lope de Vega, Star of Seville, Calderon, Secret in Words; Marlowe, Edward II., Faustus; Schiller, Mary Stuart; Goethe, Faust; Rostand, Cyrano de Bergerac; Chantecler.

GERMAN

Freshman Year. Two Hours a Week.

60. Advanced study of German Grammar. German Literature: 1. and 11. Periods, with selections from the authors of these periods. Lectures on German Epic and Lyric Poetry, with their representative writers.

61. German Conversation. German Literature: III., IV., and V. Periods, with selections from the authors of these periods. Detailed study of the Life and Works of Klopstock and of Wieland.

Slections to be made from the following: Klopstock's *Odes, Oberon, Nathan the Wise, Minna von Barnhelm, Die Braut von Messina.*

Sophomore Year. Two Hours a Week.

62. Translation from English into German. German Literature: VI. Period, with selections from the authors of this period. Lectures on German Drama, with its representative writers.

63. German Composition and Conversation. German Literature VI. Period, with selections from the authors of this period. Detailed study of the Life and Works of Schiller and of Lessing. First and Second Semesters.

Selections to be made from the following: *Wallenstein* (three parts), *Maria Stuart, Emilia Galotti, Faust.*

Junior Year. Two Hours a Week.

64. Scientific German, and German Conversation. German Literature: VII. Period, with selections from the authors of this period. Lectures on German Prose (Historical, Critical, Philosophical, Oratorical, Romantic), with its representative writers.

65. Original Essays in German and German Conversation. German Literature: VII. Period with selections from the authors of this period. Detailed study of the Life and Works of Goethe and of Herder.

Selections to be made from the following: *Goetz von Berlichingen, Wilhelm Meister's Lehrjahre, Iphigenie in Tauris, De Italienische Reise, Blaetter von Deutscher Art und Kunst, Selections from the Thirty Years' War.* ..

Senior Year. One Hour a Week.

66. German Philosophical Works.

FRENCH

Freshman Year. Three Hours a Week.

70. Elementary Grammar, Pronunciation, written exercises. Based on Syms' First Year French.

71. Continuation of work done during the First Semester; reading of easy French short stories; study of easy memory selections; conversation.

Based on Syms' Second Year French.

Collateral Reading: *Fables Choisies de La Fontaine. Les Plus Jolis Contes des Fees Lazare.*

Sophomore Year. Three Hours a Week.

72. Advanced Grammar; written exercises; conversation; continuation of reading and memory selections of the first year.

Based on Syms' Third Year French.

Collateral Reading: Aldrich and Foster's French Reader. *Fleurs de France. Contes de Daudet.*

73. Continuation of the work of the preceding semester.

Syms' Third Year French is completed; a general review of French Grammar is made and exercises in French Composition are made weekly.

Collateral Reading: *Choix de Contes Contemporains. Contes Choisis* de J. Lemaitre. *Contes Choisis* de Rene Bazin. Plays selected from Labiche and Legouve.

Junior Year. Three Hours a Week.

74. In this course the French language is exclusively used. French Literature of the X., XII., XIII., XV., and XVI., centuries is insisted upon, but a thorough study of the XVII. century and of the principal authors is made.

Text. Fortier's *Histoire de la Litterature Francaise.*

Special study of Corneille, *Le Cid, Horace, Polyeucte* (only one); Racine, *Athalie, Andromaque, Brittanicus,* (only one); Molière, *l'Avare, le Misanthrope, le Bourgeois Gentilhomme;* Boileau, *Selections;* Bossuet, *Oraisons Funebres, Sermons; Fenelon, Telemaque.*

75. Continuation of the work started in the preceding semester; special study of the XVIII. and XIX. centuries.

Slections from Voltaire, Rousseau, and others of the XVIII. century.

Special study of Chateaubriand, *Atala, Avantures du Dernier des Abencerages, Poems.* La Triade Francaise: Lamartine, Alfred de Musset, and Victor Hugo. H. de Bornier, *La Fille de Roland;* Rostand, *Cyrano de Bergerac* and *l'Aiglon.*

Lectures in French will be given on other authors and the influence on French thought and life.

Senior Year. One Hour a Week.

76. Reading of French Philosophers: Paschal, *Pensees;* Descartes, *Discours sur la Methode;* Cousin, *le Vrai, le Beau et le Bien.*

HISTORY

Freshman Year. Two Hours a Week.

80. Christianity and the Roman Empire; Origon of the Papal States; Charlemagne; The Papacy and the Empire.

81. Mediæval Universities; Crusades; Rise of the Western States; Religious Orders; Schism of the West.

Sophomore Year. Two Hours a Week.

82. The Renaissance; Modern Maritime Enterprise; The Great Religious Schism; Thirty Years' War; Anglo-Indian Empire; French Absolutism.

83. The French Revolution; The Napoleonic Wars; The French Republic; Reform Movement; Unification of Germany and Italy; Kulturkampf in Germany. Eastern Question; Awakening of the Orient; Current Events.

Junior Year. Two Hours a Week.

84. Constitutional History of the United States; Principles and Applications of the Constitution; Duties of an American Citizen.

85. Labor Question; Race Problem; Social Reformers.

For Reference: Guggenberger, General History of the Christian Era; Allard, Works; Salembier, Schism of the West; Hergenroether, Kirchengeschichte; Kirsch, Kirchengeschichte; Pastor, History of the Popes; Reinsch, Essays.

ART DEPARTMENT

A well-rounded education should embrace a knowledge of art. True art has both an æsthetic and a moral value. It uplifts the imagination and refines the sensibilities. It enables us to reproduce that beauty and harmony in our lives. The aim of the art course, therefore, will be to train the eye to see beauty and to train the hand to reproduce it.

Instructions are given in pen, and charcoal drawing, in water collor painting, and painting in oils. Studies are made from objects, from casts, and from the human figure. The charming scenery of the Miami Valley affords ample opportunities for outdoor sketching.

A History of Art, in its three main branches of painting, sculpture, and architecture, completes the course. The Institute has a choice collection of photographs prints of the world's masterpieces, to which the students have access at all times.

MUSIC DEPARTMENT

The Music Deparment of the Institute is intended primarily to accommodate those that wish to pursue the study of music for its cultural advantages and as a refined accomplishment. On this idea the programs that follow are based.

Piano

Grade A. Position and playing motions. Finger exercises. Elements of notation. Studies: W. S. B. Mathews' Standard

Graded Course, Grade I., or equivalent. Broken chords in major triads. Major scales. Pieces.

Grade B. Studies: W. S. B. Mathews' Standard Graded Course, Grade II. Broken chords in major and minor triads. Major, minor, and chromatic scales. Transposition. Elementary octave and chord practice. Easy movements from Sonatinas. Pieces. Leading facts in musical biography.

Grade C. Studies: W. S. B. Mathews' Standard Graded Coure, Grade III. Broken chords and arpeggios in major and minor triads and in dominant and diminished sevenths. Scales, octaves, and chords. Movements from Sonatinas. Pieces. Elementary notions of harmony.

Grade D. Studies: W. S. M. Mathews' Standard Graded Course, Grade VI. Technic outlined in Grade C in greater speed and covering greater range of keyboard. Major, minor, and chromatic scales in double thirds and sixths. Movements from Sonatas. Pieces. Harmony.

Violin

Grade A. Elementary exercises. Goby Eberhardt, Part I. Scales in first position. Bowing exercises. Studies: de Beriot, Wohlfahrt, Schradieck, Dancla, Hohmann, Hofmann, Sevcik, Op. 6; Kayser, Op. 20, Bk. 1; pieces by Saenger, Missa Dancla, and others.

Grade B. Finger and bowing exercises. Goby Eberhardt, Part II. and III. Scales. Kayser, Op. 20, Bk. II.; Op. 44, Part I.; Dont, 24 exercises; Wohlfahrt, Op. 45, Part I. and II.; Op. 54, Part I.; Hans Sitt, Op. 32, Part I,; Sevick technical studies; Alard; de Beriot; Blumenstengel scale studies; Mazas; solos by Dancla and others; duets by Dancla, Mazas, Pleyel.

Grade C. Bowing exercises. Scales (three octaves). Studies: Dont, Mazas, Sevcik, Sitt, Op. 32, Part II. and III.; Wohlfahrt, Op. 54, Part II. and III.; Kreutzer Etudes; Fiorillo Etudes. Halir scale studies; Schradieck, I., II., III. Solos: David, de Beriot, Air Varies, Raff, and others.

Grade D. Scales (in three octaves, in thirds and octaves). Arpeggios; Rode Caprices; Kreutzer and Fiorillo Etudes combined; Campagnoli, seven divertisements. Solos: Wieniawski, Beethoven, Alard, Ries, etc. Concertos: Rode, de Beriot, Viotti, Sonatas by Handel, Mozart, Haydn, etc.

Other Instruments

For other instruments similar courses will be aranged, if warranted by the number of applicants.

COLLEGE OF ENGINEERING

The Department of Engineering, organized September, 1910, is designed to satisfy an oft-repeated desire and to fill a long-felt need. The department is a natural outgrowth of the science courses which have always received considerable attention at St. Mary's.

No effort is spared to acquaint the student thoroughly with the fundamental principles and to give him a good insight into the theoretical analysis of engineering problems. While emphasis is laid on fundamental theory, continual attention is paid to the solution of practical problems for the purpose of imbedding principles and illustrating the lines of their general industrial application. At the same time students are trained to habits of initiative and industry, and will thus be well prepared to adapt themselves readily to actual conditions and requirements, and to grapple with new problems that from time confront the professional engineer.

Lecture and text-book courses are accomplished throughout by quantitative work in well-equipped laboratories.

Frequent visits are made to accessible engineering establishments to make the student thoroughly conversant with the trend of current engineering practice. For each purposes Dayton offers exceptional facilities owing to the great number and variety of engineering plants located in the city and vicinity.

Lectures by engineers in active service will help to keep the student in touch with professional work.

REQUIREMENTS OF ADMISSION to the COLLEGE OF ENGINEERING

Candidates for admission to the College of Engineering must be sixteen years old. They must give evidence of having satisfactorily completed an amount of preparatory work averaging fifteen units. By a unit is meant a subject pursued throughout the year, comprising four or five recitations per week, or one hundred and ninety periods of sixty minutes each. Studies pursued for half a year entitle to half a unit.

In the case of Graduates of a Preparatory School or a High School having a four years' course, the diploma of graduation may be accepted in lieu of an entrance examination.

In the latter case blanks of admission will be supplied by the proper authority of the Preparatory School or High School.

The subjects of the fifteen units required for admission are arranged in two gorups.

GROUP I.	REQUIRED SUBJECTS	10 UNITS
Algebra	To Quadratics	1 unit
Algebra	Through Quadratics, Binomial Theorem	½ unit
Geometry	Plane	1 unit
Geometry	Solid	½ unit
English	Composition and Rhetoric	2 units
Languages	Latin or German or French	3 units
Physics	Elementary with Laboratory Practice	1 unit
Chemistry	Inorganic with Laboratory Practice	1 unit

GROUP II.	OPTIONAL SUBJECTS	5 UNITS
Latin	Advanced	1 to 4 units
German	Advanced	1 to 4 units
Greek	Elementary	1 to 3 units
Trigonometry	Plane	½ unit
History	Ancient and Modern, Civics	2 units
Astronomy	Descriptive	½ unit
Botany	Elementary	½ unit
Zoölogy	Elementary	½ unit
Physiology	First Elements	½ unit
Physiography	Elements	½ unit
Free Hand Drawing		½ unit
Mechanical Drawing		1 unit
Manual Training or Shopwork		1 unit

COLLEGE OF ENGINEERING

Faculty

Rev. Bernard P. O'Reilly, S. M.
President

Rev. Lawrence Yeske, S. M.
Vice-President
French

Bro. Adam Hofmann, S. M.
Mathematics

Bro. William Wohlleben, S. M.
Chemistry, Chemical Engineering

Bro. Ulrich Rappel, S. M.
Physics, Electrical Engineering

Bro. Francis O'Reilly, S. M.
Machine Drawing and Designing

Rev. John Ott, S. M.
Religion, English

Bro. William Beck, S. M.
Mathematics

SPECIAL LECTURERS

MELROSE G. KOPF, Ph. D.
Electrical Engineer

F. J. CELLARIUS, C. E.
(Member of the Ohio Engineering Society.)

GAYLORD C. CUMMIN, C. E.
City Civil Engineer, Dayton

FRANK MORRISON TAIT
General Manager Dayton Lighting Co.

JOHN A. HILLER, C. E.
Superintendent Distribution Department, Cincinnati Water Works

EDWARD A. MORITZ
County Civil Engineer, Montgomery County, Ohio

F. O. CLEMENTS, A.M., M.S.
Chief Chemist of the National Cash Register Company

HARRY F. FINKE, B.S.
Assistant City Civil Engineer

LOUIS H. MCFADDEN, A.M.
Chief Chemist of Lowe Bros.' Paint Company, Dayton, Ohio

ELECTRICAL ENGINEERING

The course in Electrical Engineering aims to give a broad Knowledge of the Theory of Electricity and of its applications in the arts. The instruction is given by lectures, recitations, and laboratory work.

As the modern development of Electrical Engineering has taken place largely along lines dependent on a thorough acquaintance with the Theory of Electricity, great importance is attached to this study.

In the Junior and Senior years the lectures have a distinctly professional character.

The theoretical work is closely linked with an extended course of laboratory exercises. In the laboratories General Physical Measurements are first taken up, followed by General Electrical Measurements. This leads to work in Electrical Testing and Electrical Engineering where distinctly engineering problems are taken up. The work is so arranged as to develop in the students habits of obeservation, precision, initiative, and industry.

COURSE IN ELECTRICAL ENGINEERING

Freshman Year

First Term

Subjects	Weeks	Hours per Week
Christian Doctrine (100)	17	1½
English (110, 111)	17	2
French (120)	17	3
Scientific German (125)	17	2
Higher Algebra (151)	17	5
Trigonometry (150)	17	5
Analytic Geometry (152)	4	5
Mechanical Drawing (171)	17	8
Inorganic Synthesis (201)	17	4
Use of Calculating Machines		

Second Term

Christian Doctrine (100)	17	1½
English (110, 112)	17	2
French (121)	17	3
Scientific German (125)	17	2
Mechanical Drawing (171)	17	3
Higher Algebra (151)	4	5
Descriptive Geometry (170)	17	5
Analytical Geometry (152)	17	5
Qualitative Chemistry (202)	17	2
Qualitative Analysis (203)	17	2
Shop Work (230, 231)	8	44

COURSE IN ELECTRICAL ENGINEERING

Sophomore Year

First Term

Subjects	Weeks	Hours per Week
Christian Doctrine (101)	17	1½
English (113, 114)	17	2
French (122)	17	3
Mechanical Drawing (172)	17	5
Calculus (153)	17	5
Vector Analysis (155)	17	1
Physics (180)	17	3
Physical Laboratory (181)	17	6
Surveying (163)	17	5

Second Term

Christian Doctrine (101)	17	1½
English (114, 115)	17	2
French (123)	17	3
Mechanical Drawing (172)	17	5
Calculus (154)	17	3
Vector Analysis (155)	17	1
Differential Equations (156)	17	2
Physics (180)	17	3
Physical Laboratory (181)	17	6
Shop work (232, 233, 234)	8	44

COURSE IN ELECTRICAL ENGINEERING

Junior Year

First Term

Subjects	Weeks	Hours per Week
Christian Doctrine (102)	17	1½
Spanish (optional) (130)	17	2
Dynamo Electric Machinery (186)	17	3
Electrical Measurements (185)	17	3
Theoretical Mechanics (160)	17	5
Applied Mechanics (161)	17	3
Theory of Mechanism (157)	17	1
Electrical Laboratory (188)	17	5
Machine Design (173)	17	3

Second Term

Christian Doctrine (102)	17	1½
Spanish (optional) (130)	17	2
Dynamo Electric Machinery (186)	17	3
Electrical Measurements (185)	17	3
Theoretical Mechanics (160)	17	5
Applied Mechanics (161)	17	3
Theory of Mechanism (157)	17	1
Electrical Laboratory (188)	17	5
Thermodynamics (158)	17	2
Machine Design (173)	17	3
Electrical Machine Construction (194)	8	44

COURSE IN ELECTRICAL ENGINEERING

Senior Year

First Term

Subjects	Weeks	Hours per Week
Christian Doctrine (103)	17	1½
Theory of Alternating Currents and Alternating Current Machinery (187)	17	3
Electrical Measurements, Illumination, and Photometry (185)	17	3
Electrical Laboratory (189)	17	5
Philosophy: Logic (104)	17	2
Electrical Design (191)	17	5
Seminar (193)	17	1

Second Term

Christian Doctrine (103)	17	1½
Theory of Alternating Currents and Alternating Current Machinery (187)	17	3
Electrical Measurements (185)	17	3
Electrical Distribution and Control (190)	17	3
Electrical Laboratory (189)	17	5
Hydraulics (162)	17	2
Philosophy: Psychology (105)	17	2
Electrical Design (191)	17	5
Economics (106)	17	1
Seminar (193)	17	1
Excursions (192)		

CHEMICAL ENGINEERING

In arranging the subjoined Course of Chemical Engineering, the Faculty has aimed at meeting the needs of such students that desire to obtain a fundamental knowledge of Chemistry and other allied subjects so as to enable them to deal with problems of construction, operation, and maintenance in connection with manufacturing processes that are essentially chemical in character. With this end in view, the course includes instruction in Qualitative and Quantitative Chemical Analaysis in its various phases, in Organic and Technical Chemistry. In the Laboratory the synthesis of typical chemical compounds leads up to the actual analysis of mixtures, alloys, and minerals according to the gravimetric, volumetric, and electrolytic methods. This work is followed by extensive practice in the domains of Organic Chemistry, Organic Technology, and Physical Chemistry. Collateral courses include Mechanical Drawing, Higher Mathematics, Advanced Physics, the study of Electrical Currents and Machinery and of one or more Modern Languages. The student is thus expected to be equipped to solve the problems constantly confronting the Chemical Engineer in the industrial field.

The Chemical Laboratories are provided with a complete stock of all necessary glass, porcelain, platinum and other metal ware, water, gas, and air-blast. Each student is provided with a locker containing all necessary apparatus for his work. Special apparatus for gas, fuel, water, and mineral analysis is also at hand, as well as analytical balances of standard makes and great sensitiveness. Modern appliances are also at the disposal of the student for electro-analysis. Numerous fume hoods insure proper ventilation of the rooms. Regard for the comfort of one's fellow-students is insisted upon. The Department Library contains standard chemical periodicals and publications in English, German, and French.

COURSE IN CHEMICAL ENGINEERING

Freshman Year

First Term

Subjects	Weeks	Hours per Week
Christian Doctrine (100)	17	1½
English (110, 111)	17	2
French (120)	17	3
Scientific German (125)	17	2
Higher Algebra (151)	17	5
Analytic Geometry (152)	4	5
Trigonometry (150)	17	5
Mechanical Drawing (171)	17	8
Inorganic Synthesis (201)	17	4
Use of Calculating Machines		

Second Term

Christian Doctrine (100)	17	1½
English (110, 112)	17	2
French (121)	17	3
Scientific German (125)	17	2
Mechanical Drawing (171)	17	3
Higher Algebra (151)	4	5
Descriptive Geometry (170)	17	5
Analytic Geometry (152)	17	5
Qualitative Chemistry (202)	17	2
Qualitative Analysis (203)	17	4
Shop Work (230, 231)	8	44

COURSE IN CHEMICAL ENGINEERING

Sophomore Year

First Term

Subjects	Weeks	Hours per Week
Christian Doctrine (101)	17	1½
English (113, 114)	17	2
French (122)	17	3
Qualitative Chemistry (202)	17	2
Qualitative Analysis (204)	17	4
Calculus (153)	17	5
Vector Analysis (155)	17	1
Physics (180)	17	3
Physical Laboratory (181)	17	6
Mineralogy	17	2

Second Term

Christian Doctrine (101)	17	1½
English (114, 115)	17	2
Quantitative Analysis (205)	17	4
Calculus (154)	17	3
Vector Analysis (155)	17	1
Differential Equations (156)	17	2
Physics (180)	17	3
Physical Laboratory (181)	17	6
Shop Work (232, 233, 234, 235)	8	44

COURSE IN CHEMICAL ENGINEERING

Junior Year

First Term

Subjects	Weeks	Hours per Week
Christian Doctrine (102)	17	1½
Spanish (optional) (130)	17	2
Quantitative Analysis (206)	17	6
Dynamo Electric Machinery (186)	17	3
Theoretical Mechanics (160)	17	5
Applied Mechanics (161)	17	3
Electrical Laboratory (188)	17	3
Machine Design (173)	17	3
Seminar (213, 214)	17	1

Second Term

Christian Doctrine (102)	17	1½
Spanish (optional) (130)	17	2
Electrochemistry (207)	6	6
Technical Analysis (208)	12	5
Organic Chemistry (209)	17	2
Chemical Technology (211)	17	2
Dynamo Electric Machinery (186)	17	3
Theoretical Mechanics (160)	17	5
Applied Mechanics (161)	17	3
Electrical Laboratory (188)	17	3
Thermodynamics (158)	17	2
Machine Design (173)	17	3
Seminar (213, 214)	17	1

COURSE IN CHEMICAL ENGINEERING

Senior Year

First Term

Subjects	Weeks	Hours per Week
Christian Doctrine (103)	17	1½
Organic Chemistry (209)	17	2
Organic Practice (210)	17	12
Chemical Technology (211)	17	2
Philosophy: Logic (104)	17	2
Seminar (213, 214)	17	1
Inspection Visits (215)		

Second Term

Christian Doctrine (103)	17	1½
Organic Practice (210)	17	12
Physical Chemistry (212)	17	2
Hydraulics (212)	17	2
Philosophy: Psychology (105)	17	2
Economics (106)	17	1
Seminar (213, 214)	17	1
Inspection Visits (215)		

SHORT COURSE IN CIVIL ENGINEERING

Freshman Year

First Term

Subjects	Weeks	Hours per Week
Christian Doctrine (100)	17	1½
English (110, 111)	17	2
French (120)	17	3
Scientific German (125)	17	2
Higher Algebra (151)	17	5
Analytic Geometry (152)	4	5
Trigonometry (150)	17	5
Mechanical Drawing (171)	17	8
Inorganic Synthesis (201)	17	4
Use of Calculating Machines		

Second Term

Christian Doctrine (100)	17	1½
English (110, 112)	17	2
French (121)	17	3
Scientific German (125)	17	2
Mechanical Drawing (171)	17	3
Higher Algebra (151)	4	5
Descriptive Geometry (179)	17	5
Analytical Geometry (152)	17	5
Qualitative Chemistry (202)	17	2
Qualitative Analysis (203)	17	4
Shop Work (230, 231)	8	44

SHORT COURSE IN CIVIL ENGINEERING

Sophomore Year

First Term

Subjects	Weeks	Hours per Week
Christian Doctrine (101)	17	1½
English (113, 114)	17	2
French (122)	17	3
Mechanical Drawing (172)	17	5
Calculus (153)	17	5
Vector Analysis (155)	17	1
Physics (180)	17	3
Physical Laboratory (181)	17	6
Surveying (163)	17	6
Mineralogy (220)	17	2

Second Term

Christian Doctrine (101)	17	1½
English (114, 115)	17	2
French (123)	17	3
Mechanical Drawing (172)	17	5
Calculus (154)	17	3
Vector Analysis (155)	17	1
Differential Equations (156)	17	2
Physics (180)	17	3
Physical Laboratory (181)	17	6
Surveying (164)	17	5
Geology (221)	17	2
Shop Work (232, 233, 234)	8	44

SHORT COURSE IN MECHANICAL ENGINEERING

Freshman Year

First Term

Subjects	Weeks	Hours per Week
Christian Doctrine (100)	17	1½
English (110, 111)	17	2
French (120)	17	3
Scientific German (125)	17	2
Higher Algebra (151)	17	5
Analytic Geometry (152)	4	5
Trigonometry (150)	17	5
Mechanical Drawing (171)	17	8
Inorganic Synthesis (201)	17	4
Use of Calculating Machines		

Second Term

Christian Doctrine (100)	17	1½
English (110, 112)	17	2
French (121)	17	3
Scientific German (125)	17	2
Mechanical Drawing (171)	17	3
Higher Algebra (151)	4	5
Descriptive Geometry (170)	17	5
Analytical Geometry (152)	17	5
Qualitative Chemistry (202)	17	2
Qualitative Analysis (203)	17	4
Shop Work (230, 231)	8	44

SHORT COURSE IN MECHANICAL ENGINEERING

Sophomore Year

First Term

Subjects	Weeks	Hours per Week
Christian Doctrine (101)	17	1½
English (113, 114)	17	2
French (122)	17	3
Mechanical Drawing (172)	17	5
Calculus (153)	17	5
Vector Analysis (155)	17	1
Physics (180)	17	3
Physical Laboratory (181)	17	6
Surveying (163)	17	5

Second Term

Christian Doctrine (101)	17	1½
English (114, 115)	17	2
French (123)	17	3
Mechanical Drawing (172)	17	5
Calculus (154)	17	3
Vector Analysis (155)	17	1
Differential Equations (156)	17	2
Physics (180)	17	3
Physical Laboratory (181)	17	6
Shop Work (232, 233, 234)	8	44

SUBJECTS OF INSTRUCTION

100. Moral. Freshman Year. One and One-half Hours a Week.

Nature and Distinction of Laws; Conscience; Sin; Virtue; Precepts of the Decalogue; Forms of Worship; Oaths and Vows; Obligation of Hearing Mass; Suicide; Murder; Scandal; Dueling; Duty and Right; Violation of Rights; Restitution; Contracts; Fraud; Lying; Detraction; Calumny; Violation of the Secret; Commandments of the Church; Fasting and Abstinence; Laws of Marriage; Christian Perfection; Evangelical Counsels; States of Life; Vocation. The Sacraments: Confession, Holy Communion, Holy Orders, Matrimony. Feasts, Ceremonies and Religious Practices of the Church.

101. Dogma. Sophomore Year. One and One-half Hours a Week.

The Holy Religion; God, His Essence and Attributes; Blessed Trinity; Creation of the World; the Angels; Man; Original Sin; the Incarnation; Jesus Christ in Prophecy, on Earth, in Glory; the Work of Jesus Christ; Grace; Merit; Essence and Existence of the Sacraments; Effects and Efficacy of the Sacraments; Indulgences; Virtue; Four Last Things.

102. Apologetics. Junior Year. One and One-half Hours a Week.

Religion, Revelation, Function of Reason in matters of Faith.

Historical value of the Sacred Scriptures. The Pentateuch; the Pentateuch and Science—Geology, Astronomy, Biology, Paleontology. The Bible and modern discoveries in Egypt, Assyria, and Chaldea. Historical value of the Gospels.

Demonstration of the Divinity of the Christian religion. Miracles and Prophecies, Phenomenon of Hypnotism. Ten proofs of the Divinity of the mission of Jesus Christ and His work, the establishment of the Christian Religion. Christianity and Buddhism, Christian Science and Faith Cure. Truth of the Catholic Religion. (1) The Roman Catholic Church possesses the four positive marks of the true Church. Protestantism; The Oriental Schismatic Church. Perrogatives conferred by Jesus Christ upon the Church. (2) Accusations brought against the Church. Intolerance; the Vicious Circle; the Inquisition; Galileo; Massacre of St. Bartholomew; Crusades; Wars of Religion; Revocation of the Edict of Nantes; Temporal Power of the Popes; Authority of the Popes in the Middle Ages; Bad Popes; the Church and the Civilization.

103. Rational Theology. Senior Year. One and One-half Hours a Week.

1. Definition and scope. Relation to Dogmatic Theology. The Existence of God. Necessity of demonstrating the existence of God. Demonstration; arguments from motion, contingency, causality, axiomatic truths, duty, moral sanction, relativity, design; ontological argument. Atheism: Idealistic Atheism, Materialistic Atheism, Practical Atheism, Religious and Moral Consequences of Atheism.

2. Nature and Attributes of God: Manner of Determining the Attributes of God; the Essence of God, and His metaphysical attributes, simplicity, perfection; idea of the infinite; immutability, eternity, unity, omnipresence. Moral attributes of God or the divine personality; God's knowledge; divine knowledge and human knowledge; divine knowledge and human liberty; divine will. Pantheism among the ancients; in the Middle Ages. Modern Pantheists, Spinoza's theory of substance, Fichte, Shelling, Anthropormorphism.

3. Creation and Evolution: Creation according to St. Thomas; evolution according to the Fathers; evolution and the Bible.

104. Logic. Senior Year. First Term, Two Hours a Week.

General Introduction; Object of Logic; Divisions of Logic; Plan of Logic.

Formal Logic: On Concepts and Terms; The Proposition; The Syllogism.

Applied Logic or Methodology: On Method in General; Demonstration; Mathematical Demonstration; Method of the Physical Sciences; Method of the Natural Sciences; Method of the Moral Sciences; Errors and Sophisms; Truth and Science; The Principal Scientific Hypotheses.

105. Psychology. Senior Year. Second Term. Two Hours a Week.

Object of Psychology: The Facts of Consciousness; The Faculties of the Soul; The Soul; Method of Experimental Psychology.

Treatise on Sensibility: Sense Perception; Consciousness of Sensations; Pleasure and Pain; The Mental Image; The Memory; Associations of Ideas; Instinct; Appetency and Passion; The Motor Faculty.

Treatise on the Intellect: Attention; Abstraction; Generalization; Conception; Judgment; Reasoning; First Principles.

Treatise on the Will: Nature of the Will; Moral Liberty; Determinism.

106. Economics. Senior Year. One Term. One Hour a Week.

Essential elements of the abstract theory of Economics; applications, exemplifications of the theory; money, banking, transportation, international trade; monopoly; legal aspects of specifications and contracts.

110. Literary Criticism. Freshman Year. Two Terms. One Hour a Week.

Sentence; Paragraph; Complete Composition; Personality in Literary Art; The Letter.

THE ESSAY: Modern Use; Modern Tracts and Pamphlets; Editorials; Preparation of Scientific Papers and Essays; Representative Essayists.

BIOGRAPHY: Sources; Kinds; Representative Biographers.

HISTORY: Historical Interpretation; Prejudice; Modern Scientific Method; Noted Historians.

POETRY: Elements of Versification; The Epic, Lyric, Pastoral Ode, Sonnet.

111. Classics. Freshman Year. One Term. One Hour a Week.

Richard III. Speeches of Burke, O'Connell, Webster, Cicero, Demosthenes.

112. English Literature. Freshman Year. One Hour a Week.

THE FORMATIVE PERIOD.

1. The Anglo Saxon or Old English Period.
   Beowulf; The Seafarer; Our First Speech; Bede; Caed-Mon; Alfred.
2. The Anglo Norman Period.
   The Norman Conquest; Literary Ideals of the Normans; Geoffrey of Monmouth; Layamont.
3. The Age of Chaucer.
   Langland; Wickliffe; Mandeville; Wyatt; Surrey; Mallory.

MODERN PERIOD: The Puritan Age; Characteristics; Metaphysical Poets; Milton; Prose Writers; The Period of the Restoration; Dryden.

113. English Literature. Sophomore Year. One Term. One Hour a Week.

THE ELIZABETHAN PERIOD.

Character of the Elizabethan Age.

The Non-Dramatic Poets—Spenser, Sackville, Sydney, Drayton.

Brief Study of the Drama; Shakespeare's Predecessor, Marlowe; Shakespeare, himself; His Contemporaries and Successors —Ben Johnson, Beaumont and Fletcher, Webster, Middleton, Haywood, Massinger.

MODERN PERIOD: The Puritan Age; Characteristics; Metaphysical Poets; Milton; Prose Writers; The Period of the Restoration; Dryden.

114. Classics. Sophomore Year. Two Terms. Two Hours a Week.

Hamlet, King Lear; Milton, Paradise Lost; Pope, Rape of the Lock; Wordsworth, Keats, Shelley, Byron, Browning, Poems; Tennyson, The Princess, Idylls of the King; Modern Novels.

115. English Literature. Sophomore Year. One Term. One Hour a Week.

AGE OF CLASSICISM: Characteristics; Pope, Johnson, Addison; The Revival of Romantic Poetry; Gray, Goldsmith, Cowper; First English Novelists; Defoe.

AGE OF ROMANTICISM: Characteristics; Poets: Wordsworth, Coleridge, Scott, Byron, Shelley, Keats; Prose Writers: Lamb, DeQuincey, Scott, Austen.

VICTORIAN AGE: Characteristics; Poets: Browning, Tenny, son; Prose Writers; Dickens, Thackeray, Eliot, Macaulay, Meredith, Stevenson, Carlyle, Ruskin, Newman. Catholic Revival.

120. French. Freshman Year. First Term. Three Hours a Week.

Elementary Grammar, Pronunciation, written exercises.
Based on Syms' First Year French.

121. French. Second Term. Three Hours a Week.

Continuation of work done during the First Semester; reading of easy French short stories; study of easy memory selections; conversation.

Based on Syms' Second Year French.

Collateral Reading: *Fables Choisies de La Fontaine. Les Plus Jolis Contes des Fees (Lazare).*

122. French. Sophomore Year. First Term. Three Hours a Week.

Advanced Grammar; written exercises; conversation; continuation of reading and memory selections of the first year.

ased on Syms' Third Year in French.

Collateral Reading: Aldrich and Foster's French Reader. *Fleurs de France. Contes de Daudet.*

123. French. Second Term. Three Hours a Week.

Continuation of the work of the preceding semester.

Syms' Third Year in French is completed; a general view of French Grammar is made and exercises in French Composition are made weekly.

Collateral Reading: *Choix de Contes Contemporains.* Contes *Choisis* de J. Lemaitre. *Contes Choisis* de Rene Bazin. Plays selected from Labiche and Legouve.

125. Scientific German. Freshman Year. Two Terms. Two Hours a Week.

The course presuposes the ability to read easy narrative prose at sight. The object of the instruction is to prepare the student to make practical use of scientific treatises and periodicals for the purpose of investigation. Translations of scientific articles in German publications are made a feature of this course.

130. Spanish. Junior Year. Two Terms. Two Hours a Week.

Garner, Spanish Grammar. Course in elementary Spanish. Stress is laid on pronunciation and conversation.

Translation of easy tales from Trueba; select fables of Samaniego.

150. Trigonometry. Freshman Year. First Term. Five Hours a Week.

Trigonometric Functions; Variations of Trigonometric Functions; Functions of the Sum and Difference of Arcs; Functions of Multiple Arcs; Inverse Functions; Solution of Triangles; Application of Trigonometry to the Solution of Quadratic Equations; Moivre's Theorem; Trigonometric Equations and Identities; Trigonometric Series; Miscellaneous Problems.

151. Higher Algebra. Freshman Year. First Term. Five Hours a Week.

Theory of Quadratic Equations; Theory of Exponents; Radicals;; Theory of Numbers. Imaginary Quantities; Complex Numbers; Mathematical Induction; Permutations and Combinations; Determinents, Convergency, and Summation of Series; Binomial Theorem; Theory of Equations; Sturm's Theorem; Horner's Method of Solving Numerical Equations.

152. Analytic Geometry. Freshman Year. Second Term. Five Hours a Week.

Analytic Geometry of Two and Three Dimensions; Various Systems of coördinates; Loci Problems; Study of the Line; the Circle; the Parabola; the Elipse; the Hyperbola; Tangents;

Normals; General Equation of the Second Degree; Higher Plane Curves; Surfaces of Revolution.

153. Differential Calculus. Sophomore Year. First Term. Five Hours a Week.

Theory of Functions; Differentiation of Algebraic and Transcendental Forms; Implicit Functions: Expansion of Functions by Taylor and Maclaurin's Theorems; Indeterminate Forms; Partial Differentiation; Direction of Curves; Tangents and Normals; Asymptotes;; Multiple Points; Study of Curvature; Involutes and Evolutes; Envelopes; Maxima and Minima.

154. Integral Calculus. Sophomore Year. Second Term. Three Hours a Week.

Elementary Forms of Integration; Integration of Rational Fractions; Integration by Parts; Trigonometric Integrals; Integration as a Summation; Application of Integration to Plane Curves; Volumes of Revolution; Double Integration; Moments of Inertia; Surface and Volume of any Solid.

155. Vector Analysis. Sophomore Year. First and Second Term. One Hour a Week.

Elementary Operations of Vector Analysis. Composition and Decomposition of Vectors; Unit Vector; Vector Equations of the Straight Line and Plane; Centroids; Scalar and Vector Products; Line Integral; Surface Integral; Vector and Scalar Products of Three Vectors; Circle and Sphere; Differentiation of Scalar and Vector Products; Tangents and Normals; Curvature; Equations of Surfaces; Partial Differentiation; The Differential Operator $\triangle$ (Del.)

156. Differential Equations. Sophomore Year. Second Term. Two Hours a Week.

Formation of a Differential Equation; Equations of the First Order and of the First Degree; Equations of the First Order, but not of the First Degree; Singular Solutions; Linear Equations; Linear Equations with Variable Coefficients; Equations of the Second Order; Equations with more than Two Variables; Partial Differential Equations.

157. Theory of Mechanism. Junior Year. First and Second Terms. One Hour a Week.

The geometry of machinery, showing the laws which govern the velocities of the moving parts and the correct forms for gear-teeth, cams, and link motions.

158. Thermodynamics. Junior Year. Second Term. Two Hours a Week.

The principle of the Conservation of Energy. The general laws of thermodynamics as applied to perfect gases, superheated vapors, etc.; isothermal and adiabatic expansion. Carnot's Principle; Application of the principle especially in connection with the study of the steam engine.

160. Theoretical Mechanics. Junior Year. First and Second Terms. Five Hours a Week.

Kinematics: Linear, Plane, Spherical, Screw Motions; Velocity; Acceleration; Angular Acceleration.

Dynamics: Mass; Moments of Mass; Centroids; Momentum; Force; Energy.

Statics: Concurrent Forces; Parallel Forces; Theory of Couples; Principles of Virtual Work.

Kinetics: Impulses; Impact of Homogeneous Spheres; Rectiliniar, Free Curvilinear and Constrained Motions of a Particle; Kinetics of Rigid Bodies.

161. Applied Mechanics. Junior Year. First and Second Terms. Three Hours a Week.

The Physical Qualities of Materials of Construction; The Study of Stresses and Strains in the same. Safe Limit of Elasticity; Modulus of Elasticity; Experiments in Tension; Compression, Shearing, Torsion; Special Problems in Flexure of Beams.

Construction and Strength of Arches; Graphical Method for Arch-Ribs of Hinged Ends; and of Fixed Ends: Stress Diagrams; Temperature Stresses; Braced Arches.

162. Hydraulics. Senior Year. Second Term. Two Hours a Week.

Fluid Pressure in Tanks and Reservoirs; Earth Pressure and Retaining Walls; Steady Flow of Liquids through Pipes and Orifices; Coefficient of Friction of Water in Pipes; Loss of Head due to Elbows, Bends, Valve-Gates, and Throttle-Valves.

163. Surveying. Sophomore Year. First Term. Five Hours a Week.

Chain Surveying: Measurements of Distances; Use of Chain and Tape; Stadia Wires; Area of contents of Ground.

Compass Surveying: Surveyor's Compass; Correction of Local Attraction; Field Notes; Variation of Needle in Declina tion; Area or Contents of Ground.

Transit Surveying: Study of the Transit; Measurements of Angles; Ranging of Lines; Farm Surveying: Laying out and Dividing of Land.

Leveling: Study of the Y Level; Use of Leveling Rod; Section Leveling; Cross-section Leveling; Computation of Earthwork.

164. Surveying. Sophomore Year. Second Term. Five Hours a Week.

Topographical Surveying: Definitions and Principles; Shading and Delineation; Topographical Signs; Mapping; Contour Lines.

Railway Curves: Definition and Principles; Location of Curves; Laying off Ordinates; Reversed and Compound Curves.

165. Astronomy. Three Hours a Week.

The Earth; The Observatory; Refraction; The Sun; The Solar System Parallax; Determination of the First point of Aries; Precession; Nutation and Aberration; Navigation; Fixed Stars; Spectrum Analysis; Masses of Heavenly Bodies.

170. Descriptive Geometry. Freshman Year. Second Term. Eight Hours a Week.

Elemetary Principles; Notation; Problems Relating to the Point, Line and Plane; Principles and Problems Relating to the Cylinder, Cone and Double Curved Surface of Revolution; Intersection of Planes and Solids; Development of Solids; Intersection of Solids; Miscellaneous Problems.

171. Mechanical Drawing. Freshman Year. First and Second Terms. Eight Hours a Week.

Use of Drawing Instruments; Lettering; Conic Sections; Projection Drawing; Intersection of Planes and Solids; Intersection of Solids.

Drawing of the second term is taken in connection with the course of Descriptive Geometry outlined above.

172. Mechanical Drawing. Sophomore Year. First and Second Terms. Eight Hours a Week.

This course is intended to give general information on simple machine details, such as bolts, screws, springs, keys, flanges, pipe fittings, valves, etc. Great attention is given to the reading of blueprints.

173. Machine Design. Junior Year. First and Second Terms. Three Hours a Week.

This course is intimately connected with the several departments of engineering. Free-hand sketching from machine parts and models are made, and the transferring of the sketching into Machine Drawings is required. It is the aim of the course to teach the student to make complete sets of working and assembly drawings for special machines, by aplying all the principles acquired in the class room and the shops.

180. Physics. Sophomore Year. First and Second Terms. Three Hours a Week.

The aim of this course is to furnish all the knowledge of physics required in the technical courses of the Engineering Department. The subjects considered are general mechanics, molecular mechanics, wave motion, electricity, magnetism, sound and optics. These topics are discussed both mathematically and experimentally, while the historical and descriptive aspects are not overlooked. The physical principles and the applications thereof are very fully illustrated by an extensive series of lecture-table demonstrations and lantern projections.

181. Physical Laboratory. Sophomore Year. First and Second Terms. Six Hours a Week.

The work in the Physical Laboratory is from the beginning exclusively quantitative. It is so mapped out as to teach the student to make accurate measurements, to impart dexterity in the manipulation of instruments, and to give practice in properly noting, interpreting, and reducing experimental data. The student at the same time gets a clear understanding of the principles of Physics that he has learned in the lecture-room.

The following questions are treated in the laboratory: Uniformly accelerated motion; force proportional to rate of change of momentum; composition and resolution of forces; the principle of work; energy and efficiency; the laws of impact; elastic impact; coefficient of restitution; elasticity; Hook's law; Young's modulus; the coefficient of rigidity; moment of inertia; simple harmonic motion; determination of "3"; the law of centripetal force; Boyle's law; density of air; the measurement of temperature; law of Avogadro; densities of gases and vapors; the pressure-temperature curve of a saturated vapor; hygrometry; Archimedes' principle; capillarity; calorimetry; expansion.

Magnetic and electric fields of force; determination of the strengths of magnetic fields and magnetic poles; measurement of electric currents; measurement of potential difference; measurement of resistance; temperature cofficient of resistance;

specific resistance; galvanometer; constant of a moving-coil galvanometer; absolute measurement of capacity; comparison of capacities, determination of dielectric constants, and the ratio of the electrostatic and electro-magnetic units; electromotive force and internal resistance; comparison of electromotive forces; electro-magnetic induction; constants of the earth's magnetic field; self-induction; magnetic induction in iron; electrotic conduction; velocity of sound in air; musical properties of air chambers; longitudinal vibrations of rods; waves in strings; diffraction of sound and light waves; diffraction grating; refraction of light; total reflection; dispersion and spectra; polarized light; radioactivity.

185. Electrical Measurements and Measuring Instruments. Junior and Senior Years. First and Second Terms. Three Hours a Week.

The aim of this course is to set forth the theory of electrical measurements, the theory and mechanical construction of the instruments used, the degree of precision attainable, and the possible sources of error. The course likewise includes a systematic round of laboratory exercises in electricity and magnetism. The principal questions handled are the following; The determination of resistances by the various methods, insulation tests, comparisons of electromotive forces by the method of compensation, use of the potentiometer, the various forms of voltmeters, the calibration and correction of volmeters, ammeters, and wattmeters; storage battery tests, use of the electrometer, measuring and comparison of capacities and coefficients of self-induction, mutual induction, laws of the electromagnet, measurement of induction, use of the Bismuth spiral and magnetic balance, the determination of the permeability of iron, hysteresis tests, etc.

Besides these electro-magnetic measurements, there is likewise a series of photometric measurements on incandescent and arc lamps with the Bunsen, Lummer-Brodhun, Martens, Weber, Polarisation and Integrating photometers.

The students are required to hand in written reports of their work in the laboratory, accompanied with standard diagrams of connections, and graphs showing the results of their tests.

186. Dynamo Electric Machinery. Junior Year. First and Second Terms. Three Hours a Week.

This course embraces a study of Ohm's law and Kirchhoff's laws and various applications thereof; a study of electromagnets and the magnetic properties of iron; the theory, construction, and characteristics of series, shunt and compound generators,

and the theory of commutation; parallel operation, speed control of motors, as also a discussion of the principles that underlie generator and motor testing.

187. Theory of Alternating Currents and Alternating Current Machinery. Senior Year. First and Second Terms. Three Hours a Week.

This course comprises a study of the mathematical theory of alternating current phenomena. In the developments both vectorial and analytical methods are used. The general notions on harmonic functions are applied to alternating current circuits. A detailed study is made of circuits containing impedances and capacities in series and parallel; of the measurements of power in single phase and polyphase circuits.

In this course likewise a study is made of the construction, principles of operation and behavior of single and polyphase generators and motors, the transformer, induction motor, the synchronous motor and the rotary converter.

188. Electrical Laboratory. Junior Year. First and Second Terms. Five Hours a Week.

The work in the electrical laboratory includes the taking up of the characteristic curves of direct current machines to study their performance; the determination of the armature reaction; the making of efficiency, regulation, and heat tests; the determination of the torque of motors; a study of the various methods of operating generators and motors and their auxiliary control apparatus.

189. Electrical Laboratory. Senior Year. First and Second Terms. Five Hours a Week.

The work includes the study of circuits possessing inductance and capacity, the study of alternators, synchronous motors, rotary converters, transformers, frequency changers, and meters; the use of the oscillograph and Braun's tube; the analytical presentation of the curves found experimentally. To this is added a study of high voltage phenomena and the determination of the dielectric strength of insulating materials.

190. Electric Distribution and Control. Senior Year. Second Term. Three Hours a Week.

This course embraces the design and calculation of circuits for the distribution of power by direct currents; a study of distribution-systems, regulating apparatus, and storage batteries. Alternating current transmission and distribution is next considered, particular attention being given to high tension transmission, including the installation and operation of high tension systems.

191. Electrical Design. Senior Year. First and Second Terms. Five Hours a Week.

In this course every student is required to complete an original design of each of the following types of electro-magnetic machinery: a lifting electro-magnet, a magnetic clutch or sytsem of electrical manipulation; a direct current generator or motor; an alternating current generator or synchronous motor; an induction motor; a transformer.

This design includes, besides a full set of working drawings, the complete mechanical, magnetic and electrical computations.

192. Excursions. Senior Year. Second Term.

Visits of inspection are made to various power and industrial plants in and about Dayton. Occassionally a more extended trip is made to some large industrial center. Formal reports, on such inspection trips, are required.

193. Seminar. Senior Year. First and Second Terms. One Hour a Week.

Several times a month the students and department instructors meet for the purpose of considering the more important articles appearing in the current electrical and technical journals. Abstracts of articles are prepared and read by the students. The reading is followed by a general discussion. At the meetings, likewise, occasional lectures are given by engineers in the active practice upon subjects with whcih they are especially familiar.

194. Electrical Machine Construction. Junior Year Practice Term.

In this course the students are given practice in winding fields and armatures, assembling the parts of motors, generators and transformers, and making a running test.

201. Inorganic Synthetical Chemistry. Freshman Year. First Term. Four Hours a Week.

This laboratory course is designed to illustrate the principles and methods involved in the preparation of a number of important and typical chemicals. Wherever possible, such methods are employed that resemble those used in the industries. Collateral reading, quizzes, and complete Laboratory Records accompany this work.

202. Qualitative Chemistry (Lecture Course). Freshman Year. Second Term. Sophomore Year. First Term. Two Hours a Week.

A lecture course, fully illustrated, in which the metallic elements are studied from the standpoint of their analytical classification, going into details regarding their reactions with the

typical reagents. Acid analysis is also taken up and the problems of qualitative analysis are considered in their various phases.

203. Qualitative Analysis (Laboratory Practice). Freshman Year. Second Term. Four Hours a Week.

The student is required to separate and to identify the various metallic and non-metallic elements, inorganic and common organic acids contained in materials of graded complexity.

204. Qualitative Analysis (Laboratory Practice). Sophomore Year. First Term. Four Hours a Week.

The work under 203 is continued and completed, with special reference to full qualitative identification of complex minerals and alloys.

205. Quantitative Analysis. Sophomore Year. Second Term. Four Hours a Week.

This course provides a training in the accepted methods of quantitative analysis and follows courses 203 and 204. The work includes the gravimetric estimation of such metals as aluminium, copper, calcium, the halogens, sulphur and nitrogen, and the components of common alloys.

206. Quantitative Analysis. Junior Year. First Term. Six Hours a Week.

The work assigned is a contiuation of the course 205 and introduces the student into the methods of calibration of apparatus, acidimetry, alkalimetry, oxidation, reduction and precipitation methods. Application of these are made as the student advances in the stages of his work.

207. Electro-Chemistry. Junior Year. Second Term. Four Weeks, Five Hours a Week.

A laboratory course is designed to acquaint the student with the quantitative determination of metals electrolytically, utilizing the stationary and rotating electrodes and other modifications of modern practice.

208. Technical Analysis. Junior Year. Second Term. Twelve Weeks. Six Hours a Week.

Special problems of current industrial practice are attacked. In this connection, the analysis of iron, steel, coal, water and gas are taken up.

209. Organic Chemistry. Junior Year. Second Term. Senior Year. First Term. Thirty-four Weeks. Two Hours a Week.

PART I.—A course of lectures and recitations in which the general principles and theories of Organic Chemistry are treated with special reference to the Aliphatic Series. Attention is constantly drawn to such specific compounds which are of technical, medicinal, or theoretical importance.

PART II.—A lecture and recitation course, in which the Benzene Series is treated. As in Part I., the scientific development of the subject is always accompanied by demonstrations.

210. Organic Practice. Senior Year. Two Terms. Twelve Hours a Week.

The student is made familiar with the operations and apparatus involved in organic work, such as fractional distillation, extraction, cystallization steam distillation, determination of melting and boiling points; and with various methods of preparation (etherification, saponification, nitration, sulphonation, diazotization, etc.). He prepares a prescribed number of typical organic products of synthetic and commercial interest. Accompanying this synthetic feature, the analytical methods (qualitative and quanitative) peculiar to organic chemistry are taken up and thoroughly mastered.

211. Chemical Technology. Junior Year. Second Term. Senior Year. First Term. Two Hours a Week.

This course consists of lectures and recitations upon the more important technical chemical processes. Much attention is given to the general operations common to many industries and to the details of various types of apparatus used for carrying on the processes of crushing, lixiviation, filtration, distillation, etc. Charts, models, and a large collection of samples are employed as aids.

212. Physical Chemistry. Senior Year. Second Term. Two Hours a Week.

In this course the fundamental laws and theories of chemistry are studied from the standpoint of their historical development, together with the discussion of the principles and applications of thermo-chemistry. Chemical dynamics and statics and the modern theories of solution are discussed, reference being continually made to original literature.

Laboratory work includes vapor density and molecular weight determinations according to the classical methods, etc.

213. **Seminar** Students of the Junior and Senior Years meet in informal conference with the instructors and discuss prepared papers and reviews of selected topics from current chemical literature.

214. **Special Lectures** by practicing industrial chemists and engineers will be arranged for to be given at stated periods.

215. **Inspection Visits** to local and neighboring establishments will help to familiarize the students with the actualities of chemical industry.

220. Mineralogy. Sophomore Year. First Term. Two Hours a Week.

A course of lectures and recitations is given on general and special mineralogy. The crystallographic, physical and chemical properties of the more important minerals are dwelt upon at length. Laboratory work, in which crystallographic models and natural crystals are put into the hands of the students, supplements the lectures. Othe minerals are given for identification, thus bringing him into contact with a wide range of material. The Institute museum mineral collection is always open to students.

221. Geology. Sophomore Year. Second Term. Two Hours a Week.

The principles of dynamic, structural, physiographical and historical geology are presented in a series of lectures and recitations, supplemented by specimens furnished by the Institute Museum.

230. Carpentry and Wood-Turning.

The object of the work is a thorough training in the adjustment use, and sharpening of the ordinary wood-working tools. The exercises in carpentry include sawing, planing, chiseling, including chamfering, grooving, and plain moulding work; framing, including tenoning, splicing, mortising, and fitting braces; use of moulding planes; nailing, dove-tailing; gluing; and the proper use of sandpaper.

The exercises in Wood-Turning include systematic instruction in the use of the wood lathe in center and chuck turning and careful training in the use of turning tools, such as gouges, turning chisels, nosing tools, right and left side tools, parting tool, calipers and dividers.

231. Patternmaking.

Under this subject the student is taught the construction from working drawings of patterns for some machine involving the

operations of laying up, gluing, turning, carving, and making core boxes.

232. Forging.

This course includes instruction in the building and care of fires, heating, drawing, forming, bending and twisting, upsetting while bending, upsetting for square corners, punching, bolt-making, chamfering, welding, the making and use of heading tools, chain making, the making and fitting of braces, the construction of hooks and ring bolts, riveting and the use of threading tools.

233. Foundry Work.

The exercises include instruction in tempering the sand and making green moulds for small work. This is followed by exercises in core-making and an explanation of loan work. Machine, floor, and sweep moulding are briefly discussed. Students are likewise taught to attend the cupola furnace.

234. Machine Shop Practice.

The students are given instruction and practice in chipping chamfers, flat, concave and convex surfaces, keyways and "chipping to shoulder." This is followed by exercises in filing, beginning with the names and classification of files, a discussion of the "cut" tooth angles, and use of each form, and methods of holding and operating. The instruction covers methods of holding and "laying out" work, cross filing, draw filing, free-hand filing, production of flat surfaces at right angles, parallel surfaces, chamfering, filing to template, use of the hack-saw, fitting, including parallel, drive, and slide fits, finishing and polishing.

Chipping and filing are followed by metal turning, including lathe work, driling, planing, and milling.

HIGH SCHOOL AND BUSINESS DEPARTMENTS

Faculty

Rev. Bernard P. O'Reilly, S. M.
President

Rev. Lawrence Yeske, S. M.
Vice-President

Bro. Andrew Nickol, S. M.
Fourth Year

Bro. Ulrich Rappel, S. M.
Physics

Bro. William Beck, S. M.
Physics, Zoology, Botany, Algebra

Bro. John Gareis, S. M.
Second Business

Bro. Frank Walter, S. M.
Third Year A

Bro. George Meinzinger, S. M.
Third Year B

Bro. William Wohlleben, S. M.
Chemistry

Bro. Bernard Leimkuehler, S. M.
First Business

Bro. George Binlein, S. M.
Second A

Bro. John Gunzelmann, S. M.
Second B

Bro. James J. Nickol, S. M.
Second C

Bro. Louis Reimbold, S. M.
Algebra, Geometry

Bro. William Schumacher, S. M.
First A

Bro. Frank May, S. M.
First B

Bro. Frederick Paff, S. M.
Bro. George Schneider, S. M.
Religion

HIGH SCHOOL DEPARTMENT

FIRST YEAR

First Term	Hours	Second Term	Hours
Religion	2½	Religion	2½
English	6	English	5
German	5	German	5
Civil Government	2	Civil Government	2
Algebra	4	Algebra	4
Physical Geography	2	Physiology	2
Drawing, Penmanship	2	Drawing, Penmanship	2

SECOND YEAR

First Term	Hours	Second Term	Hours
Religion	2½	Religion	2½
Rhetoric, Classics	4	Rhetoric, Classics	4
History	2	History	2
German	4	German	4
Latin	5	Latin	5
Algebra	3½	Algebra	3½
Zoology	2	Botany	2

THIRD YEAR

First Term	Hours	Second Term	Hours
Religion	2½	Religion	2½
Rhetoric, Classics	3	Rhetoric, Classics	3
Latin	5	Latin	5
German	4	German	4
History	1	History	1
Geometry	4	Geometry	4
Chemistry	3½	Chemistry	3½
Laboratory Practice	2	Laboratory Practice	2

FOURTH YEAR

First Term	Hours	Second Term	Hours
Religion	2½	Religion	2½
English	2	English	2
Latin	5	Latin	5
German	4	German	4
History	1	History	1
Geometry	4	Geometry	4
Physics	4	Physics	4
Physical Laboratory	2	Physical Laboratory	2

SUBJECTS OF INSTRUCTION

CHRISTIAN DOCTRINE

I Year High School. Deharbe's Large Catechism. One and One-half Hours per Week

End of Man; Faith, its Necessity and Qualities; the Twelve Articles of the Creed; the Comamndments; Love of God; Love of Self and Neighbor; the Decalogue.

II Year High School. Deharbe's Large Catechism. One and One-half Hours per Week

Review of the Commandments of God; Commandments of the Church; Sin; Virtue; Grace; Actual and Sanctifying Grace; the Seven Sacraments; the Holy Sacrifice of the Mass; Indulgences; the Sacramentals; Prayer; the Lord's Prayer; the Angelical Salutation; Daily Prayers; the Rosary; Manner of Serving at Mass. Ecclesiastical Year—the Seasons and Festivals.

III Year High School and I Year Business. Deharbe's Full Catechism. One and One-half Hours per Week

The Commandments; the Love of God; Christian Self-Love, and Love of Our Neighbor; the Decalogue; Veneration and Invocation of the Saints; the Commandments of the Church; Sin; Virtue and Christian Perfection; Grace; Sacraments; the Real Presence; the Mass Indulgences; Sacramentals; Prayer; Religious Practices and Ceremonies.

IV Year High School and II Year Business. Deharbe's Full Catechism. One and One-half Hours per Week

End of man; Faith; God; His Attributes and Perfections; the Trinity; the Creation and Government of the World; the Angels; Our First Parents and Their Fall; Jesus Christ, the Messias, True God and True Man; the Incarnation; Divine Maternity of the Blessed Virgin; the Passion, Death, and Resurrection of Jesus Christ; the Judgment; the Holy Ghost; the Church and Its Marks; Papal Infallibility; the Four Last Things.

Detailed study of the Mass; Sacred Vessels; Vestments, etc.; Sacramentals; Festivals; the Divine Office; Vespers, Compline, Benediction of the Blessed Sacrament; the Liturgical Year.

CHURCH HISTORY

By Rev. B. J. Spalding.

I Year High School. One Hour per Week

First Epoch. From Foundation of the Church to Reign of Constantine (A. D. 3-312); Early Church; the Ten Persecutions; the Apologists; Heresies; Progress of the Church.

Second Epoch. From Conversion of Constantine to Fall of the Western Empire (A. D. 312-475). Constantine the Great; Julian the Apostate; Invasion of Barbarians; Heresies—Arianism, Nestorianism; Doctors; Saints and Councils; Monasticism in the East and West.

II Year High School. One Hour per Week

Third Epoch. From the Downfall of the Western Empire to the Coronation of Charlemagne (147-800). Conversion of Barbarians, Franks, Visigoths, Anglo-Saxons, Lombards, Teutonic Tribes, Mahometans; Heresies in the East—Eutychianism, Monothelitism, Iconoclasts; the Church and Civilization; Popes; Bishops; Monachism; St. Benedict.

Fourth Epoch. From the Restoration of the Western Empire to Gregory VII. (800-1073). The Church in the Central and Western Europe; Conversion of Northern and Eastern Nations of Europe; the Greek Schism; Feudalism and Investitures.

Fifth Epoch. From Gregory the Great to Boniface VIII. (1073-1294). Palestine Under the Mahometans; the Crusades; Military Orders; Gregory VII.; the Papacy and the Empire; Mendicant Orders; Universities.

III Year High School. One Hour per Week

Sixth Epoch. From Boniface VII. to the Rise of Protestantism (1294-1517). Ecclesiastical Tribunals; the Albigenses; the Inquisitions; the Action of the Temporal Supremacy of the Popes; the Great Schism of the West; Councils; Heresies; Church Architecture; the Arts; Literature and Science.

Seventh Epoch. From the Rise of Protestantism to the Treaty of Westphalia (1517-1648). Martin Luther; Thirty Years' War; Spread of Protestantism; Calvinism; Hugenots; Massacre of St. artholomew; John Knox; Mary, Queen of Scots; Henry VIII.; Effect of Protestantism in England; Elizabeth; James I.; Gunpowder Plot; Council of Treat; Religious Orders; Jesuits; Decline of Protestantism; Discoveries; Missions in Africa; India; Japan; China; America.

IV Year High School. One Hour per Week

Eighth Epoch. From the Treaty of Westphalia (1684) to the present day. Church and Monarchies; Louis XIV. and the Church; the Church and Spain; the Church and Austria; Infidelity in Europe; the French Revolution; Effort to Annihilate the Church; Napoleon and Pius VII.; Revival of Religion; the Church since the Revolution; the Redemptorists; Missions in Europe; the East, Africa, Oceanica, in South and Central America; the Church in the United States.

ENGLISH

I Year High School. Four Hours per Week

Grammar: Fundamental English, John P. McNichols, S. J. Practice in composition every week.

Classics:

(*a*) A thorough knowledge of the subject-matter, form, and structure of:

Irving, *Legend of Sleepy Hollow;* Lamb, *Tales from Shakespeare* (2); Hawthorne, *Tanglewood Tales* (2); Dickens, *Christmas Carol* (Scrooge and Marley); Longfellow, *Evangeline;* Goldsmith, *Deserted Village;* Crawford, *Marzio's Crucifix.*

Detailed written work is required.

(*b*) A general knowledge of the substance of six books selected from the following groups:

Group 1. (Two to be selected.) *Life of Henry Clay, Life of Washington, Washington and His Generals, Autobiography of Franklin.* Group 2. (One to be selected.) Cooper, *The Spy;* Dickens, *Christmas Carol.* Group 3. (One to be selected.) Hawthorne, *Tanglewood Tales;* Wm. C. Bryant, *Thanatopsis and Other Poems.* Group 4. (One to be selected.) Lamb, *Tales from Shakespeare;* Irving, *Sketch Book.* Group 5. (One to be selected.) Irving, *Alhambra and Conquest of Granada.*

Written work is required.

II Year High School. Four Hours per Week

Rhetoric: Hill's Rhetoric. Weekly practice.

Classics:

(*a*) A thorough knowledge of the subject-matter, form, and structure of:

Longfellow, *Evangeline;* E. A. Poe, *Gold Bug;* Samuel T. Coleridge, *Rime of Ancient Mariner;* William Shakespeare, *Merchant of Venice; Washington's Farewell Address;* Sir Walter Scott, *Lay of the Last Minstrel*; Cardinal Wiseman, *Fabiola.*

Detailed written work is required.

(*b*) A general knowledge of the substance of six books selected from the following group:

Group 1. One of Hawthorne's novels—*House of Seven Gables* suggested. Group 2. Thackeray, *Vanity Fair,* or *The Virginians.* Group 3. Goldsmith, *Vicar of Wakefield.* Group 4. One of Cooper's novels—*Last of the Mohicans, Prairie, The Pioneers,* or *The Spy* suggested. Group 5. Longfellow's *Hiawatha;* Browning's Poems—*Pied Piper* suggested; Cowper—*John Gilpin's Ride* suggested. Group 6. Byron, *Prisoner of Chilon; Mazeppa.*

Written work is required.

Note.—The elements of English Versification are taught in this class.

III Year High School. Three Hours per Week

Hill's Rhetoric, completed. Weekly practice.
Composition and essay writing.
Classice.

(*a*) A thorough knowledge of the subject-matter and structure of: Bryant, *Thanatopsis and Oether Poems;* Webster, *First Bunker Hill Oration;* Byron, *Prisoner of Chillon and Mazeppa;* Shakespeare, *Julius Caesar;* Arnold, *Sohrab and Rustum;* Macaulay, *Essay on Johnson;* Newman, *Callista.* .. ..

(*b*) A general knowledge of the substance of six books selected from the following roups: Group 1. Wiseman, *Fabiola;* Crawford, *Marzioo's Crucifix.* Group 2. Scott, *Waverly, Ivanhoe, Talisman.* Group 3. One of Webster's Speeches. Group 4. One of the Essays of Elia, Lamb. Group 5. Cooper, *Two Admirals, Prairie, Last of the Mohicans.* Group 6. Whittier, .*Snowbound;* Scott, *Lady of the Lake, Lay of the Last Minstrel.....*

N. B.—Written work is required.

IV Year High School. Three Hours per Week

Weekly practice in Compostion and Essay Writing.
Classics:

(*a*) A thorough knowledge of the subject-matter and structure of: Milton, *Lycidas and Comus;* Addison, *DeCoverly Papers;* Milton, *L'Allegro and Il Penseroso;* Shakespeare, *Macbeth;* Carlyle, *Essay on Burns;* Ruskin, *Sesame and Lilies;* Miles Keon, *Dion and the Sybils.*

Detailed work is required.

(*b*) A general knowledge of the substance of six books selected from the following groups. (Written work is required.) Group 1. Poe's Tales and Poems. Group 2. One of Thackeray's Novels. Group 3. One of Scott's Novels. Group 4. One of Dicken's Novels. Group 5. One of the following: a. Bulwer-Lytton, *Last Days of Pompeii;* b. Jane Porter, *Scottish Chiefs.* Group 6. One of the following: a. Tennyson, *Enoch Arden;* b. Scott, *Lady of the Lake.*

GERMAN

I Year High School. Five Hours per Week

Dreyspring's Cumulative Method of Learning German. The Alphabet, Indefinite and Definite Articles; Pronouns; Prepositions governing the Dative Cases; Adjectives; Nouns; Declension of Nouns, Pronouns; Conjugation of sein, haben, werden; the Conjugation.

Text: Dreyspring's Cumulative Method to page 115.
Reading: *Bunte Geschichten.* Erna M. Stoltze.

II Year High School. Four Hours per Week

Intensive study of verb forms. Review of weak declension, strong declension; remaining parts of speech.

Text: Dreyspring's Cumulative Method from page 115 to the end.

Reading: *Grimm's Maerchen.* James Kern.

III Year High School. Four Hours per Week

German Composition and Letter Writing.

Classics: *Selected Poems, Schiller's Lied von der Glocke, Der Taucher.*

IV Year High School. Four Hours per Week

German Composition.

Classics: *Wilhelm Tell, Jungfrau von Orleans, Hermann und Dorothea.*

LATIN

II Year High School. Five Hours per Week

Latin forms, inflections; conjugations; syntax.

Text: *Foundations of Latin.* Bennett.

Reading: *Historia Sacra; Phaedrus.*

III Year High School. Five Hours per Week

Latin Grammar; intensive study of verb forms and syntax.

Text: Bennett's Latin Grammar.

Classics: *Nepos; Caesar.*

IV Year High School. Five Hours per Week

Latin Grammar; Latin Composition.

Text: Bennett's Latin Grammar.

Cicero's *Orations Against Cataline;* Virgil, *Books I. and II.*

MATHEMATICS

I Year High School. Algebra. Four Hours per Week

Algebraic Symbols and Expressions; Fundamental Operations; Factoring; Equations of One and Two Unknown quantities; Involution and Evolution; Quadratic Equation.

Text: *Milne's Elements of Algebra.*

II Year High School. Agelbra. Four Hours per Week

Review of previous course with intensive study of factors; H. C. F. and L. C. M.; Fractions; Radicals; Theory of Exponent; Binomial Theorem; Ratio and Proportion; Quadratic Equation.

Text: *Milne's High School Algebra.*

III Year High School. Geometry. Four Hours per Week

Plane Geometry. The Line, Polygon, Circle; Proportion; Similar Figures; Areas of Polygons; Area of Circle. I., II., III., IV., and V. Books.

Text: *Wentworth's Plane and Solid Geometry.*

IV Year High School. Geometry. Four Hours per Week

Solid Geometry. Lines and Planes; Dihedral Angles; Polyhedral Angles; Polyhedrons, Cylinders, and Cones; Spheres; Surfaces and Volumes; Problems. VI., VII., and VIII. Books.

Text: *Wentworth's Plane and Solid Geometry.*

SCIENCE

I Year High School. a. Physiography. Three Hours per Week

THE EARTH. A Planet; Movements; Magnetism; Internal Heat; Volcanoes; Earthquakes.

THE LAND. Arrangement of Land Masses; Forms of Land; Relief Forms; Islands.

THE WATER.. Properties of Water; Waters on Land; Drainage; Continental Drainage; The Sea; The Oceans; Waves and Tides; Currents of the Sea.

THE ATMOSPHERE. Physical Properties; Climate; Winds; Storms; Moisture of the Air; Hail, Snow, and Glaciers; Electrical and Optical Phenomena.

LIFE. Relations between Plants and Animals; Range of Plants and Animals; Man; Geographical Distribution of Labor.

b. Physiology. Three Hours per Week

Study of the Cell; Digestion; Foods; The Blood and Its Circulation; Bleeding Wounds and Diseases; Respiration; Ventilation, Heat, and Clothing; The Skin and Kidneys; The Nerves and Spinal Cord; The Brain; The Senses; Bones; Muscles.

Text-books: Maury, Physical Geography; Overton, Physiology

II Year High School. a. Botany. Two Hours per Week

The Seed and Its Germination; Storage of Food in the Seed; Movements, Development, and Morphology of the Seedling; Roots; Stems; Buds; Leaves; Flowers; Ecology of Flowers; Fruit; Ecology of Fruits.

The Classification of Plants; Types of Cryptograms.

Lectures supplemented by laboratory work.

b. Zoology. Two Hours per Week

Protozoa; Porifera; Coelenterata; Echinodermata; Vermes; Mollusca Arthropoda; Vertebrata.

Lectures supplemented by laboratory work.

Text-Books: Bergen, Elements of Botany; Burnet, School Zoölogy.

III Year High School. Chemistry. Five Hours per Week

a. This is a course of experimental lectures with recitations on general and descriptive chemistry. The following topics are treated: Atomic Theory; Theory of Solutions and Ionization; Acids, Bases, Salts, Neutralization; Reversible Reactions and Chemical Equilibrium; Valence; Molecular and Atomic

Weights; Chemical Formulas, Equations, and Calculations; Periodic Law; the Elements that enter into the typical chemical compounds; the organization of the Carbon Compounds and a brief discussion of some of the more common and typical representatives of Organic Chemistry. The instruction is given in such a manner as to bring home to the mind of the student the industrial and economic phases of Chemistry.

b. Laboratory Practice is taken weekly by the individual student and a Laboratory Report of his work is submitted for criticism every week.

c. Chemical Problems bearing on the subjects under discussion are given and solved, one hour per week.

Texts: McPherson and Henderson, "An Elementary Study of Chemistry"; McPherson and Henderson, "Exercises in Chemistry."

IV Year High School. Physics. Five Hours per Week

Fundamental Units; Force and Motion; Pressure of Liquids; Pressure of Air; Molecular Motions; Molecular Forces; Thermometry; Work and Mechanical Energy; Work and Heat Energy; Change of State; Magnetism; Electricity; Static and Current Dynamic Electricity; Sound; Light.

Lecture course is accompanied by a laboratory course embracing about thirty-five experiments, illustrating and demonstrating the most important laws of physics.

Text-book: Miliken and Gale's Laboratory Manual.

HISTORY

I Year High School

A topical review of the work of previous grades. The Revolutionary War; The Adoption of a New Form of Government; Establishment of the New Government; Growth in Territory and Population; Progress in Education and Literature; Financial Questions; Troubles with Foreign Countries; Slavery; Civil War.

These topics should be made the subjects of composition after due preparation.

Civil Government. Two Hours per Week

Meaning of Term: Different Forms of Government; Colonial Governments; Constitution of the United States; United States Government, Legislative, Executive, and Judicial Branches; Noteworthy Days and Events of Catholic History in the United States.

Text: Boynton.

II Year High School. Two Hours per Week

First Semester—Ancient History; Egypt; Assyria and Babylon; Media and Persia; Phœnicia and Carthage; Greece; Macedonia; States Formed from the Dismemberment of Alexander's Empire.

Second Semester—Roman History: The Monarchy (B. C. 753-509); The Republic (B. C. 509-29); The Empire, Pagan and Christian (B. C. 29, A. D. 476).

Text: Gazeau's Ancient and Roman History.

III Year High School. Two Hours per Week

First Semester—Great Invasions and Fall of the Empire of the West; History of Gaul, Great Britain, Spain, Italy; The Church and the Barbarians; Ascendency of the Carlovingians; Mohammedanism; The Church and Christian Civilization; The Empire and Feudalism; Germany and Italy; Struggle of the Papacy and the Empire.

Second Semester—Crusade in the East; Crusade in Europe, France, England, and Ireland; The Great Schism of the West; Hundred Years' War; Germany, Switzerland, and Italy; The Greek Empire and the Ottoman Turks.

Text: Gazeau's History of the Middle Ages.

IV Year High School. Two Hours per Week

Firct Semester—Decline of Feudalism; The Protestant Reformation; Religious Wars in France; Thirty Years' War; Louis XIV., The Two Revolutions.

Second Semester—The First French Republic; The Empire; Catholic Emancipation and Reform in Great Britain and Ireland; The Eastern Question in Europe; The Revolution of 1848; Russia and the Eastern Question; Recent Changes in Italy; France, Spain, and the Minor States of Europe; The British Empire.

Text: Gazeau's Modern History.

BUSINESS DEPARTMENT

FIRST YEAR

First Term

	Hours
Religion	2½
English	3
Arithmetic	3
Commercial Geography	1
Business Law	2
Bookkeeping	5
Phonography, Typewriting	4
Penmanship	1½

Second Term

	Hours
Religion	2½
English	3
Arithmetic	3
Commercial Geography	1
Business Law	2
Bookkeeping	5
Phonography, Typewriting	4
Penmanship	1½

SECOND YEAR

First Term

	Hours
Religion	2½
English	3
Arithmetic	3
History of Commerce	2
Civics	2
Bookkeeping	4
Phonography, Typewriting	4
Penmanship, Shading	2½

Second Term

	Hours
Religion	2½
English	3
Arithmetic	3
History of Commerce	2
Civics	2
Bookkeeping	4
Phonography, Typewriting	4
Penmanship, Shading	2½

SUBJECTS OF INSTRUCTION

CHRISTIAN DOCTRINE

First Business—As outlined for Third Year High School, p. 65.

Second Business—As outlined for Fourth Year High School, p. 65.

ENGLISH

I Business

1. Business Orthography. (*Marshall's Business Speller.*) Oral, written, and typewritten. Spelling of words selected from business and every-day life. Orthography of words that occur in every day's lessons. Study of synoyms, homonyms, and autonyms. Dictation. Study of the diacritical marks, abbreviations, initials, and the proper use of the dictionary.

II Business

Business Orthography. Program as outlined for I. Business.

Business English and Essentials of Letter Writing.

I Business

Grammar: Choice of words; false syntax; punctuation; capitalizing; paragraphing.

3. Composition: Plan and outline. Subjects, descriptive, reproductive, narrative. Exercises in business and social letter writing.

4. English Classics: Webster, *Bunker iHll Speech;* Shakespeare, *Merchant of Venice;* Scott, *Ivanhoe.*

II Business

1. Business Correspondence (*Ellis*). Letter Writing. Principles of rhetoric reviewed; phaseology; punctuation; capitalization; paragraphing; style and its essential qualities; figures.

2. Composition: Plan and outline. Subjects; descriptive; reproductive; narrative; argumentative. Essays, summaries, criticism, detailing. Exercises in formulating letters, telegrams, cablegrams. Study of the Poostal Service and postage rates.

English Classic—*Lion of Flanders* (Conscience), *Macbeth* (Shakespeare).

PRACTICAL BUSINESS ARITHMETIC

MOORE AND MINER.

I Business

Review of Fundamentals; Average; Checking Results; Decimal Fractions; Factors; Divisors and Multipliers; Common Frac-

tions; Aliquot Parts; iBlls and Accounts; Denominative Quantities; Practical Measurements; Percentage as applied in Bookkeeping; Daily Practice in Rapid Calculation.

II Business

Percentage; Comemrcial Discounts; Gain and Loss; Marking Goods; Commission and Brokerage; Property Insurance; State and Local Taxes; Customs; Duties; Interest; Bank Discount; Partial Payment; anker's Daily Balances; Stocks and Bonds; Life Insurance; Partitive Proportion and Partnership; Storage; Daily Practice in Rapid Calculation; Use of Adding Machine; Method of Proving Results by Check Numbers.

HISTORY OF COMMERCE

CLIVE DAY.

II Business

ANCIENT COMMERCE: General Considerations; Oriental Period; Greek Period; Roman Period.

MEDIEVAL PERIOD: Conditions About the Year 1000; Town Trade; Land Trade; Fairs; Sea Trade; The Levant Trade; Commerce of Southern Europe; of Northern Europe; Development of the Medieval Organization of Commerce; Commerce and Politics in the Latter Middle Ages.

MODERN COMMERCE: Exploration and Discovery; Development of the Economic Organization; Credit and Crises; The Modern State and the Mercantile System; Spain and Portugal; The Netherlands; England; Survey of Her Commercial Development; Exports; Imports; Shipping; Policy. The German States; Italy and Minor States.

RECENT COMMERCE: Commerce and Coal; Machinery and Manufactures; Road and Railroads; Means of Navigation and Communicaition; The Wares of Commerce; The Modern Organization; Comemrcial Policy; England's Comemrcial Development, 1800-1850; Reform of Commercial Policy; Commercial Development, 1850-1900; Present and Future. The German States; Germany under the Empire. France. Minor States of Central and Northern Europe; States of Southern Europe; Eastern Europe. The United States; The Organization of Production, 1789; Internal Trade and Foreign Commerce, 1789; Commerce and Policy, 1789-1815; National Expansion, 1815-1860; Exports, 1815-1860; Imports, Policy, Direction of Commerce, 1815-1860; National Development, 1860-1900; Exports, 1860-1900; Imports, Policy, Direction of Commerce, 1860-1900.

SUPPLEMENTARY: The LaSalle Extension University.

COMMERCIAL GEOGRAPHY

GANNET-GARRISON-HOUSTON.

I Business

COMMERCIAL CONDITIONS: Climae and Topography; Influence of the Climate and Topography on Life; Social Conditions;

Manufacturing Facilities; Transportation Facilities; Financial Conditions; Soil and Its Cultivation; Vegetable Products; Animal Products; Mineral Products.

UNITED STATES: Vegetable Products; Animal Products; Mineral Products.

UNITED STATES: Manufactures; Transportation; Commerce and Population; Vegetable Products; Animal Products; Mineral Products; Manufactures; Transportation; Commerce and Population of Alaska; Canada; Newfoundland; Danish America; Mexico; Central America; West Indies; Europe; Asia; Africa; Australia; New Zealand; Oceanica and South America.

ELEMENTS OF BUSINESS LAW

TELLER AND BROWN.

I Business

PRELIMINARY TOPICS: Business Law; Property; Courts; Procedure; Formation of Contracts; Agreement; Competent Parties; Consideration; Form Writing; Seal; Legality of Object; Reality of Consent.

OPERATION AND DISCHARGE OF CONTRACTS: Liabilities and Rights of Third Parties; Assignment of Contracts; Discharge of Contracts; Discharge in Bankruptcy; Particular Contracts Concerning Goods.

BAILMENT OF GOODS: Bailments Solely for Benefit of One Party; Mutual Benefit Bailments; Special Cases of Bailment for Keeping of Transportation; Cases Not Strictly of Bailment.

INSURANCE CONTRACTS: Life; Property; Marine; Policies; Waranties.

PARTICULAR CONTRACTS CONCERNING CREDITS: Credits and Loans; Interest; Usury; Banks; The Contract of Guaranty; Security.

NEGOTIABLE INSTRUMENTS: Nature and Characteristics; Form; Negotiation; Maker's and Acceptor's Contract; Drawer's and Endorser's Contract.

THE CONDUCT OF BUSINESS THROUGH REPRESENTATIVES: Agents; Principle and Agent; Appointment of Agents; Obligations of Principle and Agent to Each Other; Liabilities of Principle to Third Parties; Liability of Agent to Third Parties; Master and Servant; Inquiry to Servants.

BUSINESS ASSOCIATIONS: Partnerships; Joint Stock Companies; Corporations.

PROPERTY IN LAND AND MOVARLES: Real Property; Estates of Real Property; Lands; Its Constituents; Growths and Fixtures; Relative Right of Adjoining Owners; Transfer of Interests in Lands; Mortgages and Liens; Landlord and Tenant.

PERSONAL PROPERTY: Classification; Kinds and Estates; Acquisition and Transfers.

SCHOOL CIVICS

BOYNTON-HARVEY.

II Business

GOVERNMENT: Its Origin; Necessity; Object; Functions. Forms of Government—Colonial Government in America: Its Object and Development to the Constitution; Attempts of Union (1643-1777). The Articles of Confederation (1781-1789). The Constitution: Its Formation and Adoption; Its Origin and Nature. Legislative Department: Its Organization; Its Powers; Its Limitations; Its Working. Executive Department: President and Vice-President; President's Assistants. Judicial Department; Federal Courts; The States; On their Relation to the Constitution. The ill of Rights: The Individual in his Relations to the Constitution. Miscellaneous Provisions; The Unwritten Constitution; State Governments; Municipal Government; American Politics and Political Parties; International Law; Municipal Law.

CIVICS OF OHIO: Early Government of the Territory which is now Ohio; The Constitution of Ohio and the State Government; The Preamble; The Bill of Rights; The Legislative Branch of the State Government; The Judicial Branch of the State Government; Miscellaneous; Local Government in Ohio; The County; The Township; Municipal Government; The Harrison School Code.

BOOKKEEPING

WILLIAM AND ROGERS, INTRODUCTIVE.

I Business

DOUBLE ENTRY: Journalizing; Posting; Trial Balance; Balance Sheet; Loss and Gain Account; Daybook Journal; Forwarding; Writing and Filing of Business Forms; Exercises in Writing Checks; Notes and Drafts; Practical Business Method of Computing Interest and Discount; The Check Book; Cash Book, Bill Book, and Sales Book; Directions for Taking Inventories and Finding Errors in Trial Balances; Six Column Journal.

SINGLE ENTRY: Journal and Cash Book; Monthly Statements; Changing from Single to Double Entry.

SUPPLEMENTARY: (*Southwestern Publishing Co.*) Part I. (*Ellis Publishing Co.*) Interstate Exercises.

II Business (*Modern Business Bookkeeping.*)

Special Column Journal for Retail Grocery Business; Retail Coal Business; Wholesale and Retail Lumber Business; Shipments and Consignments; Jobbing; Manner of Detecting and Correcting Errors; Verifying Inventories of Text Books; Forwarding Accounts; Check Numbers; Opening of New Books and Transferring Accounts from Old to New; Installment Houses and Agencies; Commercial Agencies; Cost Accounting; Averaging; Manufacturing; Joint Stock Companies; Changing from a

Proprietorship to a Joint Stock Company; Banking; Clearing House; Department Stores; Loose Leaf Ledger; Typewriter Bookkeeping (*Brown*).

SUPPLEMENTARY: *Marshall's Drills.* Advanced Exercises from *Ellis,* Higher Accounting (*Goodyear-Marshall* and *Moore & Miner*). Complete Filing Case for Card System. Manipulation Register (Late Model 4-Drawer).

PHONOGRAPHY

GREGG.

I Business

Simple forms of characters; simple word-signs and phrase-writing. Blended consonants; compound words; the abbreviating principle. Dictation from First and Second Readers.

II Business

Review of first nine (9) lessons. Omission of vowels; joined prefixes; disjoined prefixes; joined affixes; disjoined affixes. Analogical Abbreviation; advanced phrase-writing; initials. Taking down of dictated business letters and speeches. Daily practice for speed and rapid transcription.

TYPEWRITING

UNDERWOOD, MONARCH, L. C. SMITH, REMINGTON, SMITH PREMIER.

I Business

Scientific Touch Typewriting Manual, Bliss Co.
Touch system, keyboard, sentences, tabulating. .

II Business

Arithmetical Exercises. Addressing envelopes, letter writing; transcribing shorthand notes taken in dictation. Duplicating by Letter Press; manifolding by carbon; stenciling for Underwood Duplication. Designing and display forms. Arithmetical exercises. Proper care of machines, and adjusting of ordinary difficulties.

PENMANSHIP

I Business

The Ideal Method of Muscular Movement Business Writing.

II Business

The Ideal Method of Muscular Movement Business Writing.
Use of Automatic Shading Pen.

ELEMENTARY DEPARTMENT

Faculty

Rev. Bernard P. O'Reilly, S. M.
President

Bro. Emil Zadow, S. M.
Eighth Grade—A

Bro. Matthias Haas, S. M.
Eighth Grade—B

Bro. Edgar Cullen, S. M.
Seventh Grade

Bro. Louis Kampmann, S. M.
Sixth Grade

Bro. Thomas Jones, S. M.
Fifth Grade

Bro. James Schoendorf, S. M.
Bro. Henry Hemmert, S. M.
Bro. John Reuss, S. M.
Religion

SUBJECTS OF INSTRUCTION

CHRISTIAN DOCTRINE

Fifth Grade

Catechism of Christian Doctrine. Plenary Council of Baltimore, No. 2.

Sixth Grade

Catechism of Christian Doctrine. Plenary Council of Baltimore, No. 2 (revised). Liturgy; Sacred Vessels; Vespers; Benediction; Vestments! Blessed Ashes; Palms; Use of Holy Water; Blessed Candles; Processions.

Seventh Grade

Catechism of Christian Doctrine. (Deharbe's Small Catechism). Ten Commandements as in Bible; Cardinal Virtues; Evangelical Counsels; Nine Ways of Being Accessory to Another's Sins; Sins That Cry to Heaven for Vengeance; Liturgy; Gospels of Sundays and Festivals; Principal Feast.

Eighth Grade

Deharbe's Small Catechism reviewed. Liturgy; Manner of Serving at Mass; Articles Needed for and Ceremonies of All the Sacraments, especially Baptism, Extreme Unction, and Viaticum.

SACRED HISTORY

Fifth Grade

Old Testament. The principal events in the four epochs from Adam and Noah; Noah to Abraham; Abraham to Solomon; Solomon to Christ. Creation; Angels; Adam and Eve; Cain and Abel; Seth; Deluge; Babel; Abraham; Isaac; Jacob; Esau; Joseph; Moses; Josue; The Judges; Solomon; Roboam.

New Testament. The principal events in the four periods extending from A. D. 1 to A. D. 30; Holy Childhood; A. D. 30 to A. D. 33, The Public Life; Week of the Passion; The Glorious Life. See for reference the Teachers' Manual.

Sixth Grade

Old Testament. Review of the principal events of the Old Testament as in the preceding grade, but with more detail and further subdivision of the epochs by the aid of the mnemonic word "Ajenamsec."

New Testament. Work of the preceding grade studied with more detail, introducing maps of Palestine and of the holy places.

Seventh Grade

Old Testament. Review of the week of the preceding grade, with intensive study of the period 926 B. C. to the birth of Christ; The Kingdom of Israel; the Prophets; Kingdom of Juda; Juda in Captivity; The Return from Captivity; Under the High Priests; Asmonean Dynasty; Herodean Dynasty.

New Testament. The First, Second and Third Journeys of Our Lord about the Sea or Lake of Galilee. Map-drawing in connection with it.

Eighth Grade

Review of the work of the preceding grades, with a special study of Jerusalem; Jerusalem Before Christ; Jerusalem at the Time of Christ; The Church of God Prefigured in Sacred History; Foundation of the Catholic Church.

ENGLISH

Fifth Grade

(*a*) ***Reading.***
(*b*) ***Word Study.***
(*c*) *Language and Composition.*
(*d*) *Literary Selections for Explanation and Study.*

(*a*) *Reading,* Benziger's III. Reader.

Supplementary reading is to be found in the lists of literary selections for the class.

(*b*) *Word Study.*

1. Spelling. Words to be selected from the various textbooks used in the class. List of words in common use. Exercises in homonyms and synonyms on the Basis of Christian Brothers' Grammar.
2. Etymology. Selected lists of Prefixes, Suffixes, and Roots.
3. Phonics. Diacritical marks and use of dictionary.
4. Syllabication. Simple rules.

(*c*) *Language.*

1. Synthesis of simple sentences. Topic to be chosen preferably from object lessons suggested by texts in reading Sacred History, United States History, Geography, and Nature Study.

Analysis of a simple sentence with reference to subject, predicate and copula, and possibly adjective modifiers.

2. Grammar. To distinguish nouns, pronouns, verbs without reference to mood or tense), and adjectives in a sentence. Rules and exercise with reference to singular and plural, masculine, and feminine.
3. Punctuation.

(*d*) *Literary Selections for Explanation and Study.*

(Those marked with an asterisk to be committed to memory.)

**The Violet; The Grain of Wheat; Might and Right; *The Will of God; The Wind in a Frolic; *A Child's Thought of God;*

*The Land of Story Books; The Planting of the Apple Tree; The Corn Song; Unseen Yet Seen; The Dog and the Cat; The Pious Boy; *The City Rat and the Country Rat; The Sparrow's Petition; *The Village Blacksmith; Somebody's Mother; *What I Hear in April; Green River; The Builders.*

Sixth Grade

(*a*) *Reading.* Benziger's IV. Reader.

Supplementary reading to be found in the literary selections for this grade. (See below.)

(*b*) *Word Study.*

1. Spelling words selected from the various text-books used in the class. List of words frequently misspelled. Review lists of common words. Exercises in synonyms. Train pupils to arrive at the meaning of words from the context.

2. Phonics. Require lists of words to be marked diacritically. List of words whose prounciation is to be sought. Geographical and historical names.

3. Etymology. Selected lists of Prefixes, Suffixes, and Roots. Use of the dictionary in forming groups or family of words from the above.

(*c*) *Language and Composition.*

1. Synthesis of simple and complex sentences, introducing relative clauses, adjuncts, modifiers, phrases.

Analysis of simple and complex sentences.

2. Grammar. Nouns; kinds and properties. Personal pronouns; their person, number, gender, and case. Verbs; transitive and intransitive, mood (but not the subjunctive), tense, person and number. Adjectives: of time, place, and manner, comparison. Prepositions, Conjunctions, and Interjections.

3. Punctuation. Draw attention to the use of the period, the comma, colon, and semicolon, exclamation point, and interrogation point in the course of reading. Study a certain number of abbreviations.

4. Daily practice in the formation of simple and complex sentences upon topics suggested by the studies in reading, history, geography, and nature. See for reference Christian Brothers' Grammar. Introduce letter-writing. Paraphrasing of literary selections studied in class (second term).

(*d*) *Literary Selections for Explanation and Study.*

(Those with an asterisk are to be committed to memory.)

*To a distant friend, *The Dove, The Year of the Church, *The Lily and the Rose, *A Child's Wish Before an Altar, Boat Song, Harvest Song, To the Rainbow, *Heaven, Jesus is God, A Castle in the Air, Death of Champlain, *One by One, *The Legend of the Cross-Bill, Work, *The Ladder of St. Augustine, *Our Titles, *The Burning Babe, *The Wolf and the Lamb, The Fox and the Crow, The Acorn and the Gourd, *The Daisy.*

Seventh Grade

(*a*) *Reading.*
(*b*) *Word Study.*
(*c*) *Language and Composition.*
(*d*) *Literary Selections for Explanation and Study.*
(*a*) *Reading.* Benziger's IV. Reader.
The Polite Pupil. Insist upon Chapters V. and VI.
(*b*) *Word Study.*
1. Spelling. Selected words from text-books used in class. Exercises in synonyms, homonyms, and antonyms, on the basis of Christian Brothers' Grammar.
2. Phonics. Diacritical marks. Lists of geographical and historical names.
3. Etymology. Selected lists of Prefixes, Suffixes, and Roots. Use of dictionary in connection with the forming of groups or family of words with the elements agove.
4. Punctuation and Capitals.
(*c*) *Language and Composition.*
Synthesis and analysis of simple, complex, and compound sentences, with modifiers, adjuncts, and phrases.
Grammar. Formal grammar on the basis of Hoenshel's grammar, with the most important rules of Syntax.
Composition. Oral and written reproduction of stories from Sacred History; topics suggested by Geography, United States History, Literary Selections used in class. Letter writing.
Paraphrasing of certain literary selections.
(*d*) *Literary Selections, for Explanation and Study.*
(Those marked with an asterisk are to be committed to memory.)
**The Thought of God, My First Fishing Excursion, *The Brook, The Month of May, The Choice of Friends, A Dream, Esop and Xanthus, *The Morning Lark, Christmas, The Lion and the Cub, *The Raven, The Man With an Ax to Grind, Two Travelers and an Oyster, Moonrise at Memphis, Stella Matutina, *A Storm in Harvest, *Curfew, *The Titles, *A Psalm of Life, The Gift of Tritemius, Gradatim, To the Dandelion, Words, *The Day is Done, *We are Free.*

Eighth Grade

(*a*) *Reading.*
(*b*) *Word Study.*
(*c*) *Language and Composition.*
(*d*) *Literary Selections for Explanation and Study.*
(*a*) *Reading.* Benziger's V. Reader.
(*b*) *Word Study.*
1. Spelling. Selected words from the text-books used in the class. Exercises in synonyms, homonyms, and antonyms on the basis of Christian Brothers' Grammar.
2. Phonics. Diacrtical marks.

3. Etymology. Selected lists of Prefixes, Suffixes, and Roots.
4. Punctuation and Capitalization.

(*c*) *Language and Composition.*

Daily practice in synthesis and analysis of simple, complex, and compound sentences, with modifiers, adjuncts, phrases.

Grammar. Formal grammar on the basis of Hoenshel's Advanced Grammar. Intensive study of the verb.

Composition. Oral and written reproduction stories from Sacred History; topics suggested by Geography, United States History and Literary Selections used in the class.

Paraphrasing selections committed to memory.

(*d*) *Literary Selections for Explanation and Study.*

*The Humming Bird, God in All, *Self-Control, The Rainbow, Quebec, Spring, St. Peter's Church at Rome, The Chambered Nautilus, *The Frost Spirit, Sonnets to the Blessed Virgin, *Loss in Delays, Death of Father Marquette, The Valley of Mexico, The Cloud, *The Quality of Mercy, *The Bells of Shandon, The Journey to Bethlehem, Flattery and Friendship, Give Me Thy Heart, The Skylark, The Spacious Firmament, *Lead, Kindly Light.*

(Those marked with an asterisk are to be memorized.)

UNITED STATES HISTORY

Fifth Grade

A few leading facts of general history. Selected lives of great men in early American History. Lives, adventures, and events in United States History.

Topics for history should ge chosen in connection with studies in geography. No topic should be considered completed until the pupils have written a composition upon the same.

Sixth Grade

Discoveries and explorations. Settlements and Inter-Colonial Wars.

I. *The New World: Discoveries, Explorations, and Claims.* ..

Extent of knowledge of the world before the discovery of America. Motives which prompted European Explorations. English, French, and Dutch Discoveries and Explorations.

II. *Colonial Development.*

Southern Colonies, New England Colonies, Middle Colonies.

III. *Inter-Colonial Wars.*

Causes: King William's War, Queen Anne's War, King George's War, French and Indian War. Conditions of the Colonies after the wars.

Map Drawing.

Seventh Grade

The Revolution, Establishment of the Federal Government, Growth of the Nation.

I. *The Revolution.*

Causes of the Revolution. Beginning of the War. (1775-1776.) New England and Canada. Campaigns of 1776-1778, principally in the Middle States. Campaigns of 1778-1781, principally in the Southern States. Treaty of Peace. 1783.

II. *Organization of the Government of the United States.*

III. *The Development of the Union.* 1789-1845.

Maps to be constantly used in connection with lessons in history.

Eighth Grade

Development of the Nation, continued (1845-1909). The Tariff Question and Growth of Sectional Feeling. Inventions and Improvements and their effects. The Civil War.

Text: Benziger's History, revised.

GEOGRAPHY

Fifth Grade

First Term.

Dayton. General talks about the people, animals, and plants of our town and other countries. The earth on which we live. Representations of the earth's surface. The globe representing the earth. Climate of different parts of the earth. North America: Outlines, boundaries, land and water divisions, climate, productions, inhabitants, political divisions.

Second Term.

The United States. Boundaries, general outline, size, land and water, divisions, climate, soil productions, vegetation, animals, minerals, inhabitants, their occupation, important cities.

Sixth Grade

First Term.

Short Review of general questions of the preceding grade. Latitude and Longitude.

Study of South America. Position; boundaries; physical features; climate; inhabitants; races of men; their modes of life and occupation; commerce; political divisions; important cities.

Second Term.

Europe and Asia.

Countries, positions, cities, rivers, mountain ranges.

Seventh Grade

Mathematical Geography. Shape and Size of the Earth, Motions, Latitude and Longtitude, Change of Seasons, the Zones, Globes and Maps.

Physical Geography. Surface, Land and Water Formations, Winds, Climate, Plants, and Animals.

Poltical Geography. Man, Religion, Industrial Pursuits, Governments, etc.

Above topics studied in connection with extensive studies of North America, United States, Canada, Mexico, Central America.

Text-book: Maury's Manual of Geography, Revised. (To page 76.)

Eighth Grade

Extensive study of South America, Europe, Asia, Africa, Australia, and Oceanica, on same plan as for Seventh Grade.

Maury's Manual, Revised. (Page 76 to the end.)

ARITHMETIC

Fifth Grade

Review the multiplication tables. Continue drills in the four fundamental operations. Work for accuracy rather than rapidity. United States Money. Concrete problems. Written analysis of problems involving the fundamental operation. Factors of numbers less than 100. G. C. D. and L. C. M. by the method of factoring. Denominate numbers. The most important units of length, surface, volume, weight, and time. Tables of surface and volume are to be deducted and practically from tables of length. Insist upon the written analysis of the problem. Problems in Mental Arithmetic should precede every lesson in Arithmetic.

Sixth Grade

Short review of some of the work of the preceding grade.

Simple fractions. Addition and subtraction of fractions. Multiplication and division of fractions. Concrete problems involving the above. Insist upon written analysis of solution. Decimal fractions. Bills and accounts. Area of surfaces, rectangles, paralellogram, and triangle. Problems involving such surfaces. Area of land estimated in acres. Volumes of the cube and prism.

Seventh Grade

Review fractions and mensuration of the preceding grade.

Conversion of fraction to decimals and inversely. Percentage Commercial Discount. Profit and Loss. Commission. Simple Interest. Circumference and area of the circle. Surface and volume of the cylinder.

Eighth Grade

Review fractions and mensuration of the preceding grades.

Latitude and Longtitude. Review some of the more important problems of percentage. Ratio and proportion. Analytical method. Power and roots.

Text-books, Roy's Practical and Intellectual Arithmetic.

PENMANSHIP AND DRAWING

Penmanship.

Palmer Method used in all grades.

Drawing.

Augburg's Standard Course.

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St. Mary's College

DAYTON, OHIO

College of Engineering

(Inaugurated, September, 1910)

College of Arts, Letters and Science, High School, Business and Elementary Department

A new Dormitory Building was opened September 7, 1911. All private rooms are equipped with every convenience—electric light, steam heat, hot and cold water and pure spring water. Bath rooms are installed on every floor. No expense was spared to make the rooms as comfortable and homelike as possible.

¶ St. Mary's has all that a college of today calls for, viz: halls, modern in every detail; complete equipment, (laboratories, libraries, museum, etc.) a picturesque park, extensive grounds, and large campuses to accommodate the entire student body.

For bulletin and illustrated literature apply to

Rev. Bernard P. O'Reilly, S. M., Pres.

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St. Mary's College BULLETIN

ST. MARY'S COLLEGE

DAYTON, OHIO

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FEB 28 1914
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SIXTY-THIRD YEAR

SERIES XXV NUMBER 3

COLLEGE CALENDAR

1913-1914

Sept. 8—Registration: High School, Business and Elementary.
Sept. 9—High School, Business and Elementary Departments open.
Sept. 12—Holy Name of Mary. No Classes.
Sept. 15—Collegiate Department opens.

Oct. 1—Engineering Department opens.
Oct. 6—Annual Retreat begins.

Nov. 1—All Saints. No Classes.
Nov. 27—Thanksgiving Day. No Classes.

Dec. 14—The C. E. W. Griffith Elocution Medal Contest.
Dec. 20—Christmas Holidays begin.

Jan. 6—Classes resume.
Jan. 26—First Term Examinations begin.
Jan. 30—Second Term begins.

Feb. 22—Washington's Birthday. No Classes.

Mar. 8—D. G. Reilly Oratory Prize Contest.
Mar. 17—St. Patrick's Day. Half-holiday.

Apr. 8—Easter Holidays begin.
Apr. 17—Classes resume.

June 1—Examinations, Engineering and Collegiate, begin.
June 5—Examinations, Fourth Year High and Second Business, begin.
June 10—Examination, remaining classes.
June 17—Commencement.

1914-1915

Registration Day, Monday, September 7.

High School, Business and Elementary Departments open Tuesday, September 8.

Collegiate Department opens Monday, September 14.

Engineering Department opens Monday, September 21.

St. Mary's College

DAYTON, OHIO

A Boarding and Day School for
Young Men and Boys

ESTABLISHED IN 1850 BY THE SOCIETY OF MARY

Courses of Studies

II. COLLEGIATE { CLASSICAL / SCIENTIFIC
I. ENGINEERING
III. HIGH SCHOOL
IV. BUSINESS
V. ELEMENTARY

BOARD OF TRUSTEES

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ST. MARY'S COLLEGE

DAYTON, OHIO

GENERAL STATEMENT

St. Mary's College is a boarding and day-college for young men and boys, under the direction of the Society of Mary. It was incorporated in 1878, and empowered to confer degrees by an act of the General Assembly of the State of Ohio.

Visitors arriving at the Union Station can take an Oakwood car going south at the corner of Main and Fifth streets, and proceed directly to the College.

The extensive grounds of over 60 acres are located in South Park, a remarkably picturesque spot within the city of Dayton, overlooking the Miami Valley. St. Mary's has all that a college of today calls for, viz., dormitory building with private rooms; halls, modern in every detail; complete equipment for all departments (laboratories, libraries, museums, etc.); a picturesque park, a natatorium, a gymnasium and auditorium, club rooms, and campuses of over ten acres to accommodate the entire student body.

A new Dormitory Building was opened June 1, 1911. All private rooms are equipped with every convenience—electric light, steam heat, hot and cold water, and pure spring water. Bath rooms are installed on every floor. No expense is spared to make the rooms as comfortable and home-like as possible.

INSTRUCTION

Departments There are five distinct departments of studies at St. Mary's: A Collegiate Department (classical and scientific) of four years, a Department of Engineering, four years of Academy or High School, a two years' Business Course, and an Elementary Department comprising the higher grades of grammar school. The studies in all departments, excepting the Collegiate and Engineering Departments, are prescribed and not elective.

Collegiate Department Thhe Collegiate Department purposes to offer to the student the time and opportunity to cultivate further and to bring to maturity the qualities of mind and heart and will that have been developed to great extent in the Academic or High School Department. To attain this aim a greater latitude is permit-

ted in the selection of studies. The studies of the Collegiate Department are divided into three groups, leading to the degrees of Bachelor of Arts, Bachelor of Letters, and Bachelor of Science. The selection of studies is made with the advice of and in consultation with members of the faculty designated for this purpose, and with the approval of the Prefect of Studies. Christian Doctrine, Philosophy, and English are considered fundamental studies for all degrees. Latin and Greek are characteristic studies for students wishing to obtain the degree of Bachelor of Arts. Latin, History, and Modern Languages are characteristic studies for candidates aspiring to the degree of Bachelor of Letters. The Sciences, Mathematics, and Physics, or Chemistry, or Biology, are characteristic studies for the degree of Bachelor of Science. In addition to this there is granted more or less selection in each group, especially in the Senior Year. For a detailed account of studies offered in the Collegiate Department, see the Program of Studies.

Engineering Department The Department of Engineering, organized September, 1910, is designed to satisfy an oft-repeated desire and to fill a long-felt need. The department is a natural outgrowth of the science courses which have always received considerable attention at St. Mary's.

No effort is spared to acquaint the student thoroughly with the fundamental principles and to give him a good insight into the theoretical analysis of engineering problems. While emphasis is laid on fundamental theory, continual attention is paid to the solution of practical problems for the purpose of imbedding principles and illustrating the lines of their general industrial application. At the same time students are trained to habits of initiative and industry, and will thus be well prepared to adapt themselves readily to actual conditions and requirements, and to grapple with new problems that from time to time confront the professional engineer.

Lecture and text-book courses are accompanied throughout by quantitative work in well-equipped laboratories.

Frequent visits are made to accessible engineering establishments to make the study thoroughly conversant with the trend of current engineering practice. For such purposes Dayton offers exceptional facilities owing to the great number and variety of engineering plants located in the city and vicinity.

Lectures by engineers in active service will help to keep the student in touch with professional work.

For detailed information apply for special **Engineering Catalogue.**

High School Department The Course of study in the High School Department extends through four years, and is equivalent to the usual High School course given in American High Schools. It provides a systematic instruction in Christian Doctrine, English Composition, Rhetoric, Literature, English Classics, Latin, a modern language (German, French, or Spanish), Algebra, Geometry, Physical Geography, Physiology, Botany, Zoölogy, Chemistry, Physics, Civics, Ancient, Mediaeval and Modern History, and Elocution. (For a detailed account of the courses, see the Program of Studies.) A certificate of graduation from the High School Department, or its equivalent, is required for entrance into the Freshman Class of the College.

Commercial or Business Course The Commercial or Business Course is intended for those who cannot command the time, or have not the inclination for a thorough High School or Collegiate training. While the curriculum does not develop the mental faculties so fully and so harmoniously as the more thorough and systematic courses in the classics and sciences offered by the Collegiate Department, nevertheless it supplies all requirements of a good business education. The curriculum comprises the study of Religion, a thorough course in English, including Grammar, Rhetoric, Literature, English and American Classics, Business Writing, Composition, General History, Business Arithmetic, Bookkeeping, Commercial Law, Commercial Geography, Phonography, Typewriting, and Elocution. The course lasts two years, and is open to students of the Institute that possess the necessary preliminary instruction and to applicants from other schools, who will be required to pass a satisfactory examination. For a detailed account of studies refer to the Program of Studies.

Elementary Department The Elementary Department accommodates students of the fifth, sixth, seventh, and eighth grades of grammar school. It provides a sound training in Christian Doctrine, Reading, Penmanship, Grammar, Arithmetic, United States History, Geography, Elocution, Drawing and Etiquette. The completion of the elementary course, or the eight years' course, in a parochial or public school is required for entrance into the High School Department. For detailed account of studies, see the Program of Studies.

Session The academic year consists of only one session, beginning in the first week of September, on the date specified on index page and closing in the latter part of June.

It is very desirable that all students enter on the first day of the session; however, applicants are received at any time during the academic year and charged for the remainder of the session.

Candidates for admission are required to present testimonials of good moral conduct.

Rank

In the Elementary and High School and Business Departments the rank of each student is determined by daily marks, weekly competition in each branch of study, and half-yearly examinations. A record of the standing of each student in scholarship and conduct is kept in the registers of the College, and a copy is sent to the parents and guardians at the end of each month.

In the Collegiate and Engineering departments there are written tests at least once a week, or at least once every two weeks, according to the nature of the subject, supplemented by oral recitations, at the discretion of the professors.

Bi-monthly records of these tests and written work (tasks) are kept by the professors.

The monthly standing of the students is publicly proclaimed at the beginning of the month.

After every semester there are written examinations on the program of the last half-year, supplemented by oral examinations, if demanded by the nature of the subject.

An average of 70 per cent. for the written work, written tests, and the semester examinations is required to receive credit for any study.

Medals

Medals and honors for scholarship are awarded at the Annual Commencement and published in the catalogue of awards.

Gold medals for excellence in class studies are awarded in the High School and Business classes.

Excellence in class studies is determined by the monthly marks, weekly competitions, and half-yearly examinations.

A minimum average of eighty-five per cent. is required to win a gold medal.

Honors for single studies are determined by competition only.

A mention for First Honors is given in the annual catalogue of awards to students that have attained an average of ninety per cent. A mention for Second Honors is given to those students that have attained an average of eighty-five per cent.

The following gold medals are awarded to the students of the B. A. and B. L. degrees:

Freshman—Excellence in English Studies.
Sophomore—Excellence in Latin Studies.
Junior—Excellence in Greek and History.
Senior—Excellence in Philosophical Studies.

The following gold medals are awarded to students of the Engineering degree:

Freshman—Excellence in Mathematics and Chemistry.
Sophomore—Excellence in Mathematics and Physics.
Junior—Excellence in Mathematics and French.
Senior—Excellence in Mathematics and Physical Sciences.

Following are the prizes and medals from generous donors:

Two gold medals for Excellence in Irish History, in the High School Department, donated by the Ladies' Auxiliary of the Ancient Order of Hibernians and the Ancient Order of Hibernians.

The Rev. Bernard J. Kuhlman Prize for American History. The Rev. Bernard J. Kuhlman, D. D., Catholic Chaplain at the National Military Home, is the donor of an annual cash prize of $25 for the best essay in American History. The subject is assigned by the reverend donor. The contest is open to all the students of the High School and Collegiate Departments. The essay must show original research work and throw light on subjects of American History, especially such as are disputed today.

A gold medal for Elocution, donated by C. E. W. Griffith. This gold medal is decided in public contest. All students of the High School and Business Departments are eligible to compete.

A gold medal for Excellence in English Studies, Freshman Letters Class, in memory of George A. Pflaum, Dayton, Ohio.

A gold medal for Excellence in Mathematics and Physics, donated by the Hon. Thomas J. Coughlin, '93, of Cleveland, Ohio.

A gold medal for Excellence in Christian Dostrine, in the Sophomore Class, donated by William H. Holters, of Covington, Ky.

A gold medal for Excellence in Theodicy, in the Senior Class, donated by the Rev. F. Joseph Kelly, '90, of Dayton, Ohio.

The Alumni Association is the perpetual donor of a gold medal to be awarded to a member of the graduating class for proficiency in English composition, both prose and verse. The competitions for the medal are held in December and March, and comprise each time an essay and a piece of verse. Students who have distinguished themselves in composition during the year, and who have been active contributors to The Exponent, are eligible to compete.

The Harry C. Busch Excellence Prize. The Hon. Harry C. Busch, '96, attorney of Cincinnati, is the donor of a cash prize of $20.00 in gold to the honor student of the Senior Letters Class, who at the time of graduation has the highest averages for Latin, Greek, English, and History for his entire Collegiate course.

Chicago Alumni Athletic Medal. The Chicago Alumni Association is the donor of a medal to be awarded the student excelling in all the Varsity sports at the College.

The Rev. Charles Polyscek Philosophy Prize. The Rev. Charles Polyscek, pastor of the Holy Name Church, Dayton, Ohio, is the donor of a cash prize of $30.00 in gold, to be awarded to the two honor students in Philosophy. The first prize is $20.00, the second $10.00.

The D. G. Reilly Oratory Prizes. Dr. D. G. Reilly, one of the college physicians, has established an Oratory Endowment Fund of $1000.00, the annual proceeds of which realize three prizes of $30.00, $20.00 and $10.00 in cash to the three most successful participants in the annual Oratorical contest. All students of the Collegiate and Engineering Departments are eligible to compete.

Students that enter the College after January 1 cannot compete for awards.

The boarding students whose average monthly standing in conduct and application is 95 per cent., receive honors for good conduct at the Annual Commencement. If, at the time of graduation from the Collegiate Department, a student has been awarded honors for four years, two of which immediately preceding graduation, he is entitled to a medal for good conduct.

Promotions Class promotions are determined at the close of the year by the result of the term examinations, by the monthly class percentages, and weekly competitions. The promotions are proclaimed at the Annual Commencement, and each student promoted receives at the same time a certificate of promotion.

Attendance at the courses is strictly enforced. A student that fails to attend ten per cent. of the number of hours devoted to any one study cannot receive credit for that study.

A general average of seventy per cent. is required to receive credit in any study. A student that has not attained an average of seventy per cent. will be conditioned in that study. If he fails to attain an average of seventy per cent. in more than three studies out of ten, or in more than four studies out of eleven, he will not be promoted.

No student will be permitted to take part in athletic contests if he has not attained an average of seventy per cent. for his studies.

Degrees and Diplomas A student of the Senior Class who, at Easter, has not attained an average of seventy per cent. for the monthly marks and the January examination, cannot compete for graduation honors in the following June.

Upon the successful completion of sixty-six points, and the recommendation of the faculty, the Board of Trustees will confer the Degree of Bachelor of Arts, or Bachelor of Letters, or Bachelor of Science.

These degrees will be conferred according to the candidate's scholarship with the mention **summa cum laude,** or **magna cum laude,** or **cum laude.**

A diploma is awarded to students who have completed either the High School or the Commercial Course and have passed a satisfactory examination.

Libraries Besides the College library, there is a circulating library in the study hall of each division of boarding students.

DISCIPLINE

Methods The sole object of the College is to impart to boys and young men a thoroughly Catholic education. Its government is designed to continue the family life. In order to secure the regularity and assiduity that are indispensable to the success of any educational work, the pupils are uniformly held to strict obedience, diligent application, and blameless conduct. The discipline is conservative in character, and designed to train the pupils to habits of self-control and gentlemanly conduct. The manner of enforcing the regulations is firm, yet mild and parental, and appeals chiefly to the pupil's conscience and sense of honor. Convinced of the insufficiency of merely human means to insure the true education of mind and will and heart, the authorities of the College place their chief reliance for the success of their educational work on the influence of religious principles and practices. Hence, the doctrine and precepts of the Catholic religion are taught in all classes, and the exercises of religion hold a prominent place among the daily recurring events of school life.

Regulations The boarding students form four distinct divisions—the First, the Second, the Third, and the Fourth. Each division has its own study hall, playground, and club room.

The correspondence of the students is controlled by the authorities. No printed matter is allowed to circulate among the students until it has been examined and approved.

The students are not allowed to leave the grounds without a written permit.

Leave of absence is granted for one day, **on the last Sunday of each month,** to those among the boarding students whose marks for class work and deportment during the preceding month are satisfactory, and whose parents or relatives live in the city of Dayton.

The weekly holiday is Thursday. Sunday and Thursday are the most convenient days of the week for visiting students.

A short vacation is granted during the Christmas season and at Easter. No students are kept during the summer vacation.

It is of the utmost importance that the students be present every day of the academic session. Hence they should be prompt to return at the close of the vacations.

The ordinary causes for dismissal are insubordination and bad conduct.

DAY SCHOLARS

During recreation and study hours the day-scholars form separate divisions.

The day-scholars are required to be at the College at 8:15 a. m. They may take dinner at the College by paying a slight additional charge, or they may bring a lunch with them from home. Class hours close at 4:00 p. m.

The day-scholars are expected to devote at least two hours at home to their studies every day.

Cleanliness, regularity, and gentlemanly conduct on the way to and from the College, as well as faithful observance of regulations, will be exacted from the day-scholars.

The day-scholars are expected to attend religious services in the parishes to which they belong, and they are therefore not required to attend the exercises held in the College chapel on Sunday.

The day-scholars are strictly forbidden to perform any commission for boarding students.

NECESSARY EXPENSES

Matriculation Fee (payable on first entrance)	$ 5 00
Tuition, Board, Laundry	240 00
Library, Athletic Fee, Physical Culture, and Admission to Lectures, Entertainments, Intercollegiate Games and Contests	10 00
Chapel Service	5 00

PAYABLE IN ADVANCE, as follows:

On Entrance in September

Matriculation Fee (payable first year only)	$ 5 00
First Payment on Board, Tuition, and Laundry	120 00
Library, Athletic Fee, etc.	10 00
Deposit on Book and Stationery Account	10 00
Chapel Service	5 00
Total	$150 00

On January 20

Board, Tuition, and Laundry $120 00

In this Second Payment must be included all Extra Expenses, such as charges for use of Laboratories, Music, etc., and any extra expenses the student may have incurred.

OPTIONAL EXPENSES

PRIVATE ROOMS, PAYABLE IN ADVANCE	$ 80 00 90 00 120 00

Owing to the fact that the number of private rooms is limited, money will not be refunded if a student loses the privilege of his room. Exception is made to this ruling only in case of sickness.

Instrumental Music—	
Piano with use of instrument, Grades A and B	$ 50 00
Grade C	55 00
Grade D	60 00
Violin (instrument furnished by pupil)	
Grades A and B	40 00
Grade C	50 00
Grade D	60 00
Orchestra or band membership—for music pupils	5 00
For others	20 00
Artistic Drawing and Painting	20 00
Use of Office Appliances (Business Department)	10 00
Phonography (private lessons)	10 00
Laboratory Fees—	
Botanical and Zoological	$ 5 00
Chemical (High School)	10 00
Physical (High School)	10 00
Deposit for Breakage	10 00
Physical (Engineering Dept.)	15 00
Chemical " "	15 00
Biological " "	5 00
Mineralogical " "	5 00
Electrical " "	15 00
Mechanical " "	10 00
Civil Engineer " "	5 00
Drafting Room " "	5 00

Graduation Fee

For all courses leading to Bachelor Degrees, $10.00; High School and Business Courses, $2.00.

Rates for Day Scholars

Tuition rates for Day Scholars are payable half-yearly in advance, as follows:

Matriculation Fee (payable first year only)	$ 1 00
Elementary Department (per annum)	30 00
High School Department (per annum)	30 00
Business Course, with use of typewriter (per annum)	40 00
Collegiate Department (per annum)	40 00
Physical Culture	1 00
Laboratory and Graduation Fees—(as above).	
Dinner at the College (per month)	4 00

REMARKS

Repairs of all kinds are extra charges.

Books and stationery can be purchased at the College at current prices.

The College will not provide a pupil with clothing or extras unless a sufficient sum of money for this purpose be deposited with the Treasurer.

No deduction is allowed for the Christmas or Easter holidays.

Pocket money may be deposited with the Treasurer, to be given as prudence may suggest or occasion may require.

The College will not hold itself responsible for any valuables, such as money, rings, watches, etc., unless these are deposited with the Treasurer.

ALL DRAFTS AND CHECKS SHOULD BE MADE PAYABLE TO THE TREASURER, OR TO ST. MARY'S COLLEGE.

NO STUDENT WILL BE REGISTERED FOR A NEW SCHOLASTIC YEAR UNLESS HIS ACCOUNT FOR THE PREVIOUS YEAR IS SETTLED.

HONORS OF GRADUATION WILL NOT BE CONFERRED UPON STUDENTS WHOSE BILLS HAVE NOT BEEN PAID.

INTEREST WILL BE CHARGED ON BILLS OF SIX MONTHS' STANDING.

WARDROBE

Each boarding student should come provided with the following articles:

3 Suits—two for daily wear, one for Sundays.
1 Overcoat.
3 Changes of summer underwear.
3 Changes of winter underwear.
6 Pairs of stockings or socks.
6 Shirts.
3 Suits of Pajamas.
12 Handkerchiefs.
4 Towels.
4 Napkins.
3 Neckties.
3 Pairs of shoes.
2 Hats or caps.
Toilet articles.

REGISTER OF STUDENTS

Abele, Philip G.....8th Grade B
Adelberg, Sylvester..1st Business
Agnew, Paul.....Freshman Eng.
Agnew, Walter.....2d High B
Albers, Herbert.....4th High
Anderson, Leon.....Soph. Eng.
Anthony, Edward.....1st High C
Armstrong, John.....1st Business
Avery, Fred J.....3d High B
Avery, Wm. F.....4th High
Baczenas, John.....3d High A
Barsch, Clement.....4th High
Barlow, Vincent.....2d High B
Becherer, Russell....8th Grade A
Behrer, Max.....1st High B
Beher, Otto.....4th High
Belanich, Joseph.....5th Grade
Belanich, Michael.....7th Grade
Bennett, Thomas E...Fresh. Eng.
Benvenute, Clarence..8th Grade A
Benvenute, Robert...8th Grade A
Berghoff, Walter.....2d High B
Bergman, Norbert C...2d High B
Berning, Franklin....8th Grade B
Bernstein, Nicholas.....4th High
Biels, Eugene.....6th Grade
Bing, Lloyd.....2d High B
Bodem, Carl.....6th Grade
Boesch, Horace.....3d High B
Boesch, William.....1st High A
Bohnert, Herbert.....6th Grade
Bohnert, Leander.....6th Grade
Bolles, William.....7th Grade
Bonholzer, Oswald...1st Business
Borntraeger, Karl.....1st High A
Bosler, Ned.....2d High A
Bowser, Abdallah.....1st High C
Breen, John.....7th Grade
Breig, Ivo.....1st High B
Brennan, George.....4th High
Brennan, William.....1st High B
Briggs, Joseph.....6th Grade
Broadstone, Raymond.2d High B
Braun, Clarence.....2d Business
Braun, Karl.....7th Grade
Brunn, Clair.....5th Grade
Bubolz, Adalbert.....8th Grade A
Buchanan, James.....2d High B
Bucher, Louis A.....1st High B
Bucher, Victor L.....2d High B
Burch, Holly.....3d High A
Burch, John.....4th High
Burgmeier, Albert.....4th High
Burk, Edward.....8th Grade A
Burkhardt, Alvin.....1st High B
Burkhardt, Waldron...3d High A
Burnell, Elmer.....6th Grade
Burns, Joseph L.....3d High B
Busch, Edward.....8th Grade B
Busch, Eugene.....5th Grade
Busch, Ralph.....8th Grade A
Buschwaller, Henry..8th Grade A
Casey, James.....1stt High A
Casto, Don M.....8th Grade B
Caulfield, Robert.....1st High A
Cetinski, Colman.....8th Grade B
Chronerberry, Jos....1st Business
Clark, Louis.....Senior Letters
Clasgens, Cyril.....2d High A
Cobey, Joseph.....1st High C
Coffit, Charles.....6th Grade
Conliss, Edward.....5th Grade
Connelly, Robert.....4th High
Cooper, Leslie.....3d High A
Corbett, Sylvester....8th Grade A
Couchot, Leroy.....1st High C
Crawford, Springer....3d High B
Creedon, Charles.....4th High
Crowley, Aloys.....3d High A
Crutchfield, Wm.....Fresh. Eng.
Culley, Frank.....Fresh. Letters
Dabbelt, Leo.....8th Grade B
Decker, Herman C...8th Grade A
Decker, Jacob.....2d Business
DeMaro, Doyle.....2d Business
Devereux, John.....2d High A
Dick, Joseph.....Fresh. Letters
Dieker, Joseph.....6th Grade
Dillhoff, Edward.....2d High A
Donnelly, Orville.....3d High A
Donahue, Joseph.....5th Grade
Donovan, George E.....4th High

Doran, Harvey.....1st High A
Dorger, Raymond.....6th Grade
Duffy, Edward.....1st High B
Dugan, Frank.....Fresh. Letters
Dunn, Gerald E.....4th High
Durbin, Andrew.....3d High A
Dwyer, James.....1st High A
Dwyer, John F.....1st High A
Dwyer, Marcellus....8th Grade A
Ebker, Russell.....5th Grade
Eckenrode, Robert....1st High C
Edmondson, Emil...Soph. Letters
Edmondson, George..8th Grade B
Ehret, Clifford.....2d High A
Eichelberger, Perle..1st Business
Eilerman, Bernard.....3d High B
Eilerman, Robert....8th Grade A
Emanuel, John.....8th Grade A
Emanuel, Victor.....2d High A
Emrie, Norton.....1st High A
Enneking, Elmer.....7th Grade
Ernst, Carl.....7th Grade
Estabrook, Kenneth...1st High A
Faigle, William.....4th High
Farley, John.....2d High A
Farley, Philip.....3d High A
Farrell, Frank.....2d Business
Farrell, James.....3d High B
Farrell, Thomas.....3d High B
Farrell, Vincent.....2d High B
Ferneding, Joseph.....3d High A
Ferrero, Demofilo.....1st High B
Fitzpatrick, Charles.....4th High
Fitzgerald, Edward....1st High A
Focke, William.....1st High C
Freeman, Eugene.....4th High
Fries, Robert.....3d High A
Ganster, Earl.....3d High A
Gard, Clair.....3d High A
Garrity, Frank.....4th High
Gasser, Lawrence....1st Business
Gaul, Christopher.....3d High A
Gaynor, Frank.....2d High B
Gerding, Lawrence....2d High A
Gerlach, Ralph.....1st Business
Glaser, Carl.....1st High C
Gochoel, Urban.....1st High C
Goeckeler, Carl.....3d High B
Goetz, Bernard.....5th Grade
Gorman, Lawrence....3d High B
Grace, Arthur.....1st High C
Greig, Vincent.....7th Grade
Greiwe, Clarence.....2d Business
Greiwe, Eugene.....7th Grade
Greiwe, Julian.....6th Grade
Grimmer, Ray.....Fresh. Letters
Grimmer, Roy.....Fresh. Letters
Grote, Richard.....8th Grade A
Grote, Walter.....6th Grade
Grote, William.....6th Grade
Gunther, Lawrence.....6th Grade
Haag, William.....6th Grade
Haas, Edwin.....2d High B
Haas, Frederick.....2d High B
Hafner, Anthony.....7th Grade
Hagan, Miles.....3d High A
Hagan, Percy.....7th Grade
Haile, Herbert.....2d High B
Haley, George.....6th Grade
Hall, Edward.....4th High
Hall, James....Soph. Engineering
Hamilton, Fred.....7th Grade
Hanley, Howard.....6th Grade
Hanley, Robert.....1st High A
Harpring, Joseph.....3d High A
Harshman, Samuel...8th Grade A
Hart, Harry.....3d High A
Hartnett, Charles....1st Business
Hartshorn, Clement...1st High B
Hayes, Celestine.....3d High A
Heath, William.....5th Grade
Heile, Marcellus.....8th Grade A
Helmig. Raymond.....6th Grade
Hemsteger, Samuel..8th Grade A
Hennessy, Thomas.....4th High
Hess, Elmer.....2d High B
Hetterman, Bernard....7th Grade
Hickey, Charles.....8th Grade A
Hickey, William.....8th Grade A
Hieber, Raymond.....2d High B
Hill, Chester B.....2d High A
Hill, Hayden.....8th Grade A
Hill, Lyman.....4th High
Hillery, Fred.....3d High A
Hochwalt, Carroll.....1st High A
Hochwalt, George.....1st High A
Hochwalt, Cyril.....4th High
Hochwa't, Norman....3d High B

Hogan, John S.....3d High B
Hook, Herbert....Freshman Eng.
Hornung, Leo.....1st High A
Hosket, Henry.....6th Grade
Houston, Joseph.....7th Grade
Howard, Wm.....8th Grade A
Hudack, Michael.....5th Grade
Hugenard, Joseph.....2d High A
Hussong, John.....1st Business
Hynes, Mark.....6th Grade
Johnson, Oda.....2d High A
Jones, Russell.....1st High B
Keagler, Andrew.....7th Grade
Keenan, Harold.....3d High A
Kelble, E. A.....1st High C
Kelley, Clarence.....2d Business
Kel'ey, Fred.....1st Business
Kelley, Richard.....2d High B
Kennedy, Harry.....1st High B
Kenning, Leon.....2d Business
Kessler, Emil.....1st High C
Kette, Charles (Dec'd).2d High B
Keuping, James.....3d High B
Keyes, Howard.....2d High A
Kienhoefer, Joseph...1st High A
Killoran, Wm. J.....4th High
Kimmel, Robert.....2d High A
Kinninger, Arthur.....4th High
Kinstle, George.....3d High B
Klein, Henry J....Senior Letters
Kline, John.....Freshman Eng.
Knoth, Albert.....4th High
Kohl, Aloys.....2d High A
Kohler, Charles.....1st High A
Koors, Irvin.....8th Grade A
Kovacic, Frank.....1st Business
Kovacic, Matthew.....5th Grade
Kramer, Fred.....7th Grade
Kramer, Justin F.....3d High A
Kranz, Bernard.....4th High
Kranz, Karl J.....4th High
Kreber, Leo.....3d High A
Kreber, Raymond.....1st High C
Kricker, Leo. D.....1st High B
Kricker, Louis L.....1st High B
Krimmel, Dudley.....7th Grade
Krusling, J. A.....4th High
Kubkowski, Frank....1st High A
Kuhn, Joseph.....3d High B
Kuntz, Edward.....1st High C
Kuntz, George F...Fresh. Letters
Kuntz, William.....4th High
Lancaster, Jack....Fresh. Letters
Lancaster, Martin.....2d High B
Lause, E. M.....4th High
Lause, Matthias.....3d High B
Lauterbach, Edwin....3d High B
Lechleitner, Edward...3d High A
Ledger, John.....1st High A
Leo, Emmett.....2d High A
Leonard, Bryan.....3d High B
Leonard, Edward.....2d High B
Leonard, Jos. D.....1st High A
Ligday, Francis.....1st High A
Linenkugle, Henry...8th Grade A
Linet, Frank.....8th Grade A
Litkowski, Eugene...1st Grade A
Lukey, Ernest.....2d High B
Macklin, Thomas J...2d Business
Madigan, Thomas J....7th Grade
Mahoney, Frank.....3d High A
Mahoney, Thomas.....2d High B
Mahrt, Alphonse...Post Graduate
Mahrt, Armin.....8th Grade B
Makley, Torrence.....2d Business
Maloney, Edward.....3d High A
Maloney, R. E.....1st Business
Manche, Chas. F.....1st Business
Marinack, John.....1st Business
Markham, Leo.....2d High A
Marshall, Bryan.....1st High A
Mastbaum, Vincent.....7th Grade
Mayl, R. L.....1st High C
McCarthy, Daniel.....2d High A
McCrate, Charles.....2d High B
McEntee, Harold.....3d High A
McGettigan, Edwin.....5th Grade
McMahon, James.....3d High A
Medley, Frank.....3d High A
Medley, Geo. G.....4th High
Meeker, Alphonse.....1st High B
Meyer, Charles.....3d High A
Meyer, Wm.....2d High A
Mider, Leo.....7th Grade
Miller, Earl P.....2d High A
Miller, Ward.....3d High A
Moeller, Alphonse A.....4th High
Mohr, Carl J.....8th Grade B

Moosbrugger, Jos.....2d High B
Moran, Wm. A.....8th Grade A
Morin, Ralston.....3d High A
Murphy, Herbert....8th Grade B
Murphy, James.....8th Grade B
Muth, Albert.....6th Grade
Muth, Richard.....7th Grade
Neary, Edward.....2d Business
Neary, Ralph.....1st Business
Nolan, Thomas.....7th Grade
Oberlander, John.....4th High
Obrien, Raymond..Senior Letters
O'Brien, William.....1st High A
Ohmer, Fred.....1st Business
Ohmer, Paul.....2d High A
Ohmer, Ray.....3d High B
O'Keefe, Cecyl.....8th Grade A
Olberding, Francis....3d High B
Olberding, Paul.....2d High A
O'Leary, Harry.....1st Business
O'Leary, William....2d Business
Oppenheim, Theodore..3d High A
Ostendorf, Henry....8th Grade B
Ostendorf, Irvin G.....7th Grade
Ott, John L.....1st High B
Ott, Spencer W.....1st Business
Otto, Howard.....1st High B
Paul, Edwin.....6th Grade
Paulick, Louis.....2d High A
Peard, Henry.....1st Business
Pflaum, Richard.....2d Business
Poeppelmeier, Law'ce..6th Grade
Poeppelmeier, Raym'd..7th Grade
Poeppelmeier, Leo.....5th Grade
Pohlman, Aloys.....1st Business
Pomeroy, Joseph.....5th Grade
Porter, Leslie.....3d High B
Powers, Frank.....Fresh. Letters
Powers, James.....3d High B
Rabbitt, Michael.....7th Grade
Rauh, Robert.....1st High B
Reichert, John.....4th High
Reitmeier, Walter H...3d High A
Reith, William.....4th High
Renner Robert.....8th Grade A
Reynolds, John.....3d High B
Reynolds, Thomas...8th Grade A
Richter, Edwin R.....3d High B
Rieger, Cletus.....2d High A
Rigney, George.....2d High B
Rieser, Theodore.....Soph. Eng.
Robbeloth, Edward....3d High B
Roberts, Preston....1st Business
Roehm, Louis.....3d High A
Rosencranz, Russell.8th Grade A
Rost, Henry.....6th Grade
Roth, Edward.....7th Grade
Roth, John T.....3d High A
Rottermann, Eugene..Fresh. Eng.
Rottermann, Louis....Soph. Eng.
Rottermann, Walter...1st High C
Rudd, Van B.....1st Business
Ruh, Robert.....8th Grade B
Sacksteder, Norbert...3d High B
Satalia, Fedele.....6th Grade
Schaefer, Joseph L....2d High B
Schell, Isidore.....1st High A
Schenk, Eugene L.....3d High A
Schleinitz, William.....4th High
Schleipeck, John.....1st Business
Schleipeck, William...1st High C
Schlichte, Vincent...1st Business
Schlipf, Leonard A....2d High A
Schmedinghoff, Aloys...Fr. Eng.
Schmitt, Clarence..Fresh. Letters
Smirnoff, Vladimir.....4th High
Schneider, Charles...1st Business
Schnorr, Edward.....2d High A
Schroeder, Henry.....6th Grade
Schrunder, Ralph.....5th Grade
Schrunder, Arnold.....6th Grade
Schuchert, Charles...1st Business
Schumacher, Alphonse..Sen. Let.
Schumacher, Ambrose.2d High A
Schunck, Owen.....2d High B
Seidl, Lawrence.....1st Business
Seitters, George.....3d High A
Shanahan, George.....4th High
Shea, Walter.....1st High B
Sheridan, Frank.....1st High C
Sherry, Robert.....3d High B
Sherry, Wm. B.....Soph. Letters
Shiels, Charles F.....4th High
Shroyer, Arthur.....7th Grade
Shroyer, Earl.....1st High C
Shuey, Raymond.....Soph. Eng.
Slattery, James.....8th Grade B
Slattery, Lawrence...2d Business

Schmidt, Waldemar...3d High B
Smith, Charles L.....8th Grade
Smith, Frank.....Soph. Letters
Smith, Russell.....5th Grade
Snyder, Frederick.....5th Grade
Spatz, John.....5th Grade
Spraley, Marion.....1st High C
Staab, George A.....1st Business
Stagmeier, Paul.....8th Grade B
Stewart, Gordon W..1st Business
Stine, Walter.....8th Grade A
Storck, Russell.....1st High B
Stowell, A. S.....2d Business
Stroop, Fred'k G.....2d High A
Stubbers, Joseph....8th Grade B
Stuber, Carl.....3d High B
Stuhlmueller, Clifford..3d High B
Stuhlmueller, Edward..3d High B
Sugrue, Leo.....2d High B
Sugrue, Wm. P.....8th Grade A
Summers, Russell.....4th High
Swain, Louis.....2d High B
Sweeney, David.....1st High B
Sweetman, Barry.....2d High B
Swift, Leonard.....4th High
Swift, Paul.....3d High A
Synnett, M. C.....Soph. Letters
Synnett, Peter.....2d High A
Tague, H.....Freshman Letters
Teigler, George.....1st Business
Teyber, Charles.....1st High C
Teyber, John.....1st High B
Thill, Frank.....Soph. Letters
Tierney, John.....1st High C
Tolley, Edgar.....6th Grade
Trimbach, Richard....1st High C
Trunk, John.....8th Grade A
Velten, Victor.....1st High C
Unger, Aloys.....8th Grade B
Wadsworth, Harold....7th Grade
Wagner, Herbert.....5th Grade
Wagner, William..Fresh. Letters
Warren, Lawrence.....2d High A
Wasmuth, R.....8th Grade B
Weber, Edward G....2d Business
Weber, Vincent.....2d High B
Wehner, William.....2d High B
Weidner, Walter E.....4th High
Weigand, John.....4th High
Weinert, Henry.....8th Grade B
Welch, Paul D.....2d Business
Wenstrup, Carl.....6th Grade
Wenstrup, Edward...8th Grade A
Werner, Aloys.....5th Grade
Werner, Wm. M.....3d High A
Weser, Joseph F.....2d Business
Wetterer, Walter....8th Grade B
Williams, Walter H.....4th High
Windbiel, Joseph.....4th High
Wintermeyer, Paul....2d High B
Wintermeyer, Walter....4th High
Winters, Edward.....2d High B
Wirshing, Ralph.....Fresh. Eng.
Witzki, Sylvester.....6th Grade
Wolff, Alfred.....1st Business
Wunderlich, Orville...Soph. Eng.
Yackley, Wilbur.....1st High A
Yamashiro, Clement...Soph. Eng.
Young, Leo.....8th Grade A
Zimmer, Edward.....2d Business
Zimmerman, Carl..Fresh. Letters

SOCIETIES

APOSTLESHIP OF PRAYER
in union with
THE LEAGUE OF THE SACRED HEART

The object of the Apostleship and League is to promote interest in the great movements of the times for the true welfare of mankind, by uniting prayers and good works with the intention of the Sacred Heart of Jesus. Devotions to the Sacred Heart are held on all the First Fridays. Membership is confined to the students who have received their First Holy Communion. Number of members, 400.

PROMOTERS

Non-Resident Students

Agnew, Paul
Barlow, Vincent
Duffy, Edward
Hochwalt, George
Kuhn, Joseph
Mayl, Richard
Roth, John
Schumacher, Ambrose
Swift, Leonard
Weber, Edward
Kette, Chas. (dec'd)

Resident Students

Avery, William
Burch, Holly
Decker, Herman
Donovan, George
Dunn, Gerald
Eilermann, Robert
Ernst, Carl
Gaynor, Francis
Heile, Marcellus
Klein, Henry
Kranz, Bernard
Meyer, Charles
Morin, Ralston
O'Brien, Raymond
Ott, John
Pohlman, Aloys.
Reith, William
Thill, Francis
Wintermeyer, Walter
Winters, Edward

SODALITY OF THE IMMACULATE CONCEPTION

The Sodality of the Immaculate Conception was established at the College in 1875. Its object is to foster in the hearts of the students a tender love for the Mother of God. The Sodality has special devotional exercises every Saturday. Number of members, 215.

St. Gregory's Branch

OFFICERS

Raymond J. O'Brien.....*President*
Henry J. Klein.....*Vice-President*
Gerald E. Dunn.....*Secretary*
Emil E. Edmondson.....*Treasurer*
Frank A. Thill.....*Librarian*

MEMBERS

Cully, Francis
Dick, Joseph
Dugan, Francis
Goeckler, C.
Garrity, Francis
Grimmer, Ray
Grimmer, Roy
Killoran, William
Kinstel, G.
Lechleitner, Edward
Leonard, Joseph
Lause, M.
Moeller, Alphonse
Oberlander, John
Reichert, John
Reith, William
Synnett, Martin
Sherry, Robert
Schmitt, Clarence
Stuhlmueller, Edw.
Stuhlmueller, Clifford
Smith, Francis
Stuber, Carl
Tague, Joseph

Second Division Resident Students

OFFICERS

Bernard Kranz ..... *President*
Charles Meyer ..... *Vice-President*
Lawrence Warren ..... *Secretary*

MEMBERS

Adelberg, Sylvester
Brennan, George
Burch, John
Burns, Joseph
Farrell, James
Hagan, Miles
Harpring, Joseph
Haile, Herbert
Hartnett, Charles
Kovacic, Frank
Kranz, Karl
Kelley, Clarence
Kelly, Richard
Lancaster, Martin
McEntee, Harold
Morin, Ralston
Miller, Earl
Neary, Ralph
Olberding, Francis
Porter, Leslie
Schuchert, Charles
Sugrue, Leo
Schunck, Owen
Wintermeyer, Walter
Windbiel, Joseph
Hillery, Frederick
Oppenheim, Theodore

Third Division Resident Students

OFFICERS

Edward B. Dillhoff ..... *President*
Edward R. Richter ..... *Vice-President*
Paul W. Wintermeyer ..... *Secretary*
James F. Casey ..... *Treasurer*

MEMBERS

Busch, Ralph
Busch, Edward
Burch, Holly
Bing, Lloyd
Berghoff, Walter
Clasgens, Cyril
Emrie, Norton
Grote, Richard
Gaynor, Francis
Gasser, Lawrence
Houston, Joseph
Huguenard, Joseph
Hafner, Anthony
Kuntz, Edward
Kelley, Fred.
Keagler, Andrew
Ligday, Francis
Menninger, Edward
McCrate, Charles
Olberding, Paul
Ott, John
Rigney, George
Rabbitt, Michael
Schlichte, Vincent
Swain, Louis
Staab, George
Schrunder, Arnold

Fourth Division Resident Students

OFFICERS

Franklin Berning ..... *President*
William O'Brien ..... *Vice-President*
Edward Winters ..... *Secretary*
Herman Decker ..... *Treasurer*
Marcellus Heile ..... *Sacristan*

MEMBERS

Braun, Carl
Brunn, Clair
Bohnert, Leander
Bohnert, Herbert
Belanic, Joseph
Busch, Eugene
Caluwaert, John
Conliss, Edward
Corbett, Sylvester
Dorger, Raymond
Dabbelt, Leo
Edmondson, George
Eilerman, Robert
Enneking, Henry
Ernst, Carl
Greiwe, Eugene
Greiwe, Julian
Grote, Walter
Grote, William
Gunther, Lawrence
Hornung, Leo
Hudack, Michael
Kovacic, Matthew
Krimmel, Dudley
Kricker, Leo
Kricker, Louis
Muth, Albert
Muth, Richard
Menninger, Joseph
Menninger, Lawrence
Moran, William
Murphy, Herbert
Mider, Leo
Ruh, Robert
Roth, Edward
Slattery, James
Snyder, Frederic
Stubbers, Joseph
Schrunder, Raoul
Trunk, John

Non-Resident Students

OFFICERS

John T. Roth ..... *President*
Norman C. Hochwalt ..... *Vice-President*
William B. Sherry ..... *Secretary*

MEMBERS

Baczenas, John
Boesch, Horace
Cooper, Leslie
Crowley, Aloysius
Donnelly, Orville
Keuping, James
Kuhn, Joseph
Lauterbach, Edwin
Leonard, Bryan
Pflaum, Richard
Robbleloth, Edward
Sacksteder, Norbert
Schenck, Eugene
Schmidt, Waldemar

HOLY NAME SOCIETY

The Holy Name Society was organized amongst the students at the annual retreat, 1904. Its object is to prevent the use of profane and immodest language, and thus to promote the interests of the Holy Name of God.

The resident students are grouped by divisions, the non-resident students by classes. Branch meetings are held twice a month, and the Board of General Officers meets once a month. Number of members, 450.

GENERAL OFFICERS

Raymond O'Brien ..... *President*
Alphonse Mahrt ..... *Vice-President*
Henry Klein ..... *Secretary*
Alphonse Schumacher ..... *Treasurer*
Robert Sherry ..... *Librarian*

BRANCH OFFICERS

Resident Students

No.	*President*	*Secretary*	*Treasurer*
1.	Alphonse Schumacher	Henry Klein	Emil Edmondson
2.	Gerald Dunn	Charles Shiels	William Avery
3.	Frank Mahoney	Allan Stowell	Paul Welch
4.	Joseph Windbiel	Vincent Farrell	Walter Wintermeyer
5.	Charles Meyer	John Hogan	Ralson Morin
6.	Robert Hanley	Walter Shea	Harry O'Leary
7.	Holley Burch	George Donovan	Paul Wintermeyer
8.	Edward Kuntz	Vincent Schlichte	James Casey
9.	Edward Burke	Edward Busch	Joseph Houston
10.	Frank Berning	William O'Brien	Edward Winters
11.	Julian Greiwe	Herbert Bohnert	Leander Bohnert

Non-Resident Students

No.	*President*	*Secretary*	*Treasurer*
1.	Martin Synnett	Robert Sherry	Ralph Wirshing
2.	Lyman Hill	John Weigand	Albert Burgmeier
3.	George Kinstle	William Sherry	Norman Hochwalt
4.	Edw. Lechleitner	William Werner	Richard Maloney
5.	Paul Ohmer	Ambr'se Schumacher	Joseph Schaefer
6.	Wilbur Yeakley	Raymond Carey	Matthias Cahill
7.	Ivo Breig	Daniel McCarthy	William Brennan
8.	Irvin Koors	Russel Becherer	Albert Bubolz
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THE S. M. C. EXPONENT

The Exponent, a monthly magazine edited and published by the undergraduates, is the literary organ of the student body. The first number appeared in March, 1903. As its name indicates, The Exponent is an index of student life at St. Mary's College in all its varier phases. Each monthly issue contains representative work of the pupils in the various departments of philosophic and literary study in which their mental activity is exercised, and a detailed chronicle of the events of college life, which always proves of special interest to the wide circle of parents, relatives, and friends of the students.

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St. Mary's Dramatic Association was organized for the purpose of fostering and cultivating a taste for elocution, oratory, and the drama. Under its auspices entertainments have been given during the past year.

CAMPING OUT

At S. M. C. Hall, November 16 and 17, 1912.

PROGRAM

1. Piece Characteristic—A Suburban Scramble, *"The Commuters"* .....Bendix
S. M. C. Orchestra

2. ACT I.

3. Novelette—"*Sunshine and Roses*".....Rolfe
S. M. C. Orchestra

4. ACT II.

Glee Club entertains the Campers.
a. "*Serenade to Juanita*" (Chorus).....A. Jouberti
b. "*The Moonlight, the Rose, and You*"....Johann C. Schmid
Solo by Mr. Frank Garrity
c. "*Gunken March*".....Japanese
Solo by Yeichi Yamashiro
d. "*Kentucky Babe*" (Chorus).....A. Geibel
e. "*I'm the Guy*".....Bert Grant
By the boys who put the song in sing-song.
5. An Idiotic Rage—"*Dance of the Lunatics*".....Allen
S. M. C. Orchestra

6. ACT III.

7. March—"*Convention City*".....Allen
S. M. C. Orchestra

CAST OF CHARACTERS

Mr. Pemberton, President of the Empire Bank.....*Carl Stuber*
Herbert Wells, alias Jim Parr, formerly cashier of the Empire Bank; at present a guide.....*Ralph Wirsching*
Curtis Dunbar, a "truly good" young man.....*John Weigand*
G. Elliott Brayton, a sweet member of New York Society.....
.....*Clarence Braun*
Old Obadiah Siggins, a farmer with an eye for business.....
.....*Frank Mahoney*
Young Obadiah, his son.....*George Shanahan*
Jack Ashton, of the New York Daily Cyclone.....*Allen Howell*
Raggles, a tramp.....*Frank Thill*
Dick Percival, leading actor in the Bon-Ton Theatre.*Frank Farrell*
Dennis Clancy, an all-around man.....*Frank Gaynor*
Toots, a negro cook.....*George Rigney*

Elocution Contest

Dec. 15, 1912

1. March—"*America*".....Piepke
2. Galop—"*Winter Frolics*".....Bernstein
3. *Ode on the Passions*.....Edward Winters
Marco Bozzaris.....Edward Menninger
The Rider and the Black Horse.....Robert Eckenrode
Asleep at the Switch.....William O'Brien

4. Cornet Solo—*"The Star of Bethlehem"*.....Adams
5. *The Classmates* .....Ernest Lukey
   The Miser .....Matthias Lause
   Nathan Hale the Martyr Spy.....Louis Bucher
   Deathbed of Benedict Arnold.....H. A. Otto
6. Galop—*"Christmas Eve"* .....Ferrazzi
7. Awarding of Monograms—Athletic Association.
   Decision of the Judges.
9. March—*"Under the Double Eagle"*.....Wagner

Contest for the D. G. Reilly Oration Prizes

$30, $20 and $10 in Gold

May 18, 1913

1. March from *"Midsummer Night's Dream"*.....Mendelssohn
   S. M. C. Orchestra
2. Gavotte—*"Florence"* ..... Thalon
   S. M. C. Orchestra
3. *The Conservation of the Nation*
   Emil Edmondson, '14
4. *Oliver H. Perry*
   Raymond O'Brien, '13
5. Piano Duet—(a) *"Rondo,"* op. 182, No. 3.....Lichner
   (b) *"Fanfare Militaire"* .....Bohm
   Louis Swain and Frank Dugan
6. *Daniel O'Connell*
   Robert Sherry, '14
7. *Science and Materialism*
   Aloys. Schmedinghoff, '16
8. Cornet Duet—*"Holy Mother Guide His Footsteps"*..Wallace
   Frederick Moehring and William Freund
9. *Child Labor*
   Ralph Wirshing, '16
10. *Cross and Crescent*
    Frank Thill, '14
11. *The Holy City*—Cornet Solo.....Stephen Adams
    Fred Moehring
    With Orchestra Accompaniment
12. Awarding of Monograms to Basket Ball Team
13. Decision of Judges
    Judge Carroll Sprigg, '92, of Common Pleas Court
    Rev. Martin Varley, '06, St. Raphael's Church, Springfield, Ohio
    Robert C. Patterson, Prosecuting Attorney
14. March—*"College Yell"* .....Zamecnik
    S. M. C. Orchestra

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Kricker, Louis T.
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Menninger, Edward
Ott, John
Otto, Howard A.
Rau, Robert
Storck, Russell
Caluwaert, Edward
Cobey, Joseph
Focke, Vincent
Eckenrode, Robert
Gochoel, Urban
Kessler, Emil
Mayl, Richard
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Neubeck, S. M. ..... First Violin
Frank George Meinzinger, S. M. ..... First Violin
Thomas Bennett ..... First Violin
Joseph Moosbrugger ..... First Violin
John Gunzelmann, S. M. ..... Second Violin
William Beck, S. M. ..... Second Violin
Matthias Haas, S. M. ..... Second Violin
Charles Arns, S. M. ..... Second Violin
Andrew Nickol, S. M. ..... First Viola
Frederick Hartwick, S. M. ..... Second Viola
George Deck, S. M. ..... Violoncello
James Nickol, S. M. ..... Bass
W. J. Krebs ..... Clarinet
William Freund ..... First Cornet
Frederick Moehring ..... Second Cornet
Frederick Norkauer ..... Trombone
Louis Swain ..... Drums
Walter Schaefer ..... Tympani
Joseph Oppenheim ..... Bass Drum
Frank Dugan ..... Piano

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Bohnert, Herbert
Bohnert, Leander
Bucher, Victor
Breen, John
Heile, Marcellus
Helmig, Raymond
Hess, Elmer
Hill, Chester
Hill, Hayden
Mayl, Richard
Murphy, Herbert
Muth, Albert
Ostendorf, Irvin
Paulick, Louis

Brunn, Carl
Cahill, Matthew
Cobey, Joseph
Edmondson, George
Enneking, Elmer
Greiwe, Julian
Grothe, Richard
Hochwalt, Carl
Keuping, James
Keyes, Howard
Krimmel, Dudley
Ledger, John
Litkowski, Eugene
Mastbaum, Vincent
Poeppelmeier, Lawr'ce
Slattery, James
Synnett, Peter
Schroeder, Henry
Weinert, Henry
Winters, Edward

Alto

Berning, Francis
Cetinski, Colman
Eckenrode, Robert
Ernst, Carl
Greiwe, Eugene
Hornung, Leo
Kienhoefer, Joseph
Kricker, Leo
Kuntz, Edward
O'Brien, William
Poeppelmeier, Ray'd
Roth, Edward
Rottermann, Walter
Spraley, Marion
Stubbers, Joseph
Trunk, John
Yackley, Wilbur

Tenor

Arns, Charles, S.M.
Beck, William, S.M.
Cully, John
McMahon, James
Medley, Frank
Miller, Ward
Neary, Edward
O'Brien, Raymond
Powers, Frank
Shanahan, George
Shiels, Charles
Walter, Francis, S.M.
Welch, Paul

Bass

Avery, Fred.
Avery, William
Barsh, Clement
Bennett, Thomas
Durbin, Andrew
Dick, Joseph
Gareis, John, S.M.
Garrity, Frank
Haas, Matthias, S.M.
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Leinkuehler, Bernard, S. M.
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O'Brien, Raymond
Powers, Frank
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Schumacher, Wm. S.M.

Second Tenor

Cully, John
O'Leary, Edward
Shanahan, George
Shiels, Charles
Wagner, William
Welch, Paul
Nickol, James, S.M.
Walter, Frank, S.M.
Beck, William, S.M.
Haas, William, S.M.
Arns, Charles, S.M.

Baritone

Barsch, Clement
Bennett, Thomas
Durbin, Andrew
Lancaster, Jack
Nickol, Andrew, S.M.
Mahoney, Frank
Thill, Frank

Basso

Avery, Fred
Avery, William
Dick, Joseph
Garrity, Frank
Medley, George
Ott, Rev. John, S.M.
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Charles A. Ertel, A. B., '05 ..... Dayton, Ohio
Charles B. Freeman, B. S., '05 ..... Cincinnati, Ohio

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Rex S. Emerick, A. B., '07.....South Milford, Ind.
Joseph F. Ferneding, '07.....Dayton, Ohio
John M. Hampel, '07.....Dayton, Ohio

* Deceased.

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F. William Kroemer, '07.....Dayton, Ohio
William T. Mahoney, B. S., '07.....Chattanooga, Tenn.
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Wilfred J. Walter, B. S., '10.....Dayton, Ohio

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* Deceased.

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Henry W. Walsh, '10.....Harshman, Ohio
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Lester B. Quinlan, '12.....Chicago, Ill.
John G. Schwietermann, '12.....St. Sebastian, Ohio
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Vladimir A. Smirnoff, '12.....Blagoveschensk, Siberia
J. Russell Underwood, '12.....Dayton, Ohio
Leo E. Weaver, '12.....Crestline, Ohio

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conferred on
MICHAEL A. DAUGHERTY, JR.
with the mention magna cum laude

THE DEGREE OF BACHELOR OF ARTS
conferred on
RAYMOND J. O'BRIEN
ALPHONSE L. SCHUMACHER
with the mention cum laude

THE DEGREE OF BACHELOR OF LETTERS
conferred on
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COLLEGE OF ARTS AND LETTERS

The Collegiate Department purposes to offer to the student the time and opportunity to further cultivate and to bring to maturity the qualities of mind and heart and will that have been nourished to great extent in the Academic or High School Department. To attain this end a greater latitude is permitted in the selection of studies. The studies of the Collegiate Department are divided into three groups, leading to the degrees Bachelor of Arts, Bachelor of Letters, and Bachelor of Science. The selection of studies is made with the advice of and in consultation with members of the faculty designated for this purpose, and with the approval of the Prefect of Studies. Christian Doctrine, Philosophy, and English are considered fundamental studies for all degrees. Latin and Greek are characteristic studies for students wishing to obtain the degree of Bachelor of Arts. Latin, History and Modern Languages are characteristic studies for candidates aspiring to the degree of Bachelor of Letters.

Candidates desiring a course in General Science with a view of preparing for teaching the same, may arrange for a course with the faculty. An extensive study of mathematics will form an essential feature. Upon the successful completion of the course, the degree of Bachelor of Science will be awarded.

REQUIREMENTS OF ADMISSION to the COLLEGE OF ARTS AND LETTERS

Candidates for admission to the College of Arts and Letters must be sixteen years old. They must give evidence of having completed satisfactorily an amount of preparatory work equal to fifteen units. By a unit is meant a subject pursued throughout the year, comprising four or five recitations per week. Studies pursued for half a year entitle to half a unit.

In the case of graduates of a preparatory school or high school having a four-years' course, the diploma of graduation may be accepted in lieu of an examination of admission.

In the latter case blanks of admission will be supplied by St. Mary's College, which must be filled out and signed by the proper authority of the preparatory school or high school.

The subjects of the fifteen units required for admission are arranged in two groups.

GROUP I.	REQUIRED SUBJECTS	11 UNITS
Algebra	To Quadratics	1 unit
Geometry	Plane	1 unit
English	Composition and Rhetoric	2 units
Latin	Grammar, Version, Composition	3 units
Languages	Greek or French or German	2 units
History	Ancient and Modern	1 unit
Sciences	Physical or Natural	1 unit

GROUP II	OPTIONAL SUBJECTS	4 UNITS
Algebra	Through Quadratics	½ unit
Geometry	Solid	½ unit
Latin	Advanced	1 to 4 units
German	Advanced	1 to 4 units
Greek	Elementary	1 to 3 units
Trignometry	Plane	½ unit
History	American, Civics	1 unit
Astronomy	Descriptive	½ unit
Descriptive		½ unit
Free hand Drawing		½ unit
Mechanical Drawing		½ unit
Botany, Zoology, Physiology, Physiography, each		½ unit

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Vice-President
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Philosophy, Latin

Bro. Adam Hofmann, S. M.
Higher Mathematics

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Bro. Ulrich Rappel, S. M.
Physical Science

Bro. Francis O'Reilly, S. M.
English

Rev. Walter Tredtin, S. M.
Religion, Latin, French

Bro. William Beck, S. M.
Natural Sciences

Rev. Francis Kunnecke, S. M.
Latin

Francis E. Canny, B.A., LL.B.
Elementary Law

Melrose G. Kopf, E. E.
Machine Design

Emil Hocke
Physical Instructor

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Bro. Emil Zadow, S. M.
Second Division, Resident Students

Bro. George Schneider, S. M.
Third Division, Resident Students

Bro. John Gareis, S. M.
Fourth Division, Resident Students

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St. Joseph Hall

Bro. Geo. Weis, S. M.
Assistant Prefect

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Wm. Plattfaut, M. D., office hours, 8-10 a. m., 7-8 p. m.

D. G. Reilly, M. D., office hours, 8-9 a. m., 1-3 p. m., 7-8 p. m.

G. A. Hochwalt, M. D., office hours, 8-9 a. m., 2-3 p. m., 7-8 p. m.

A. J. Moorman, M. D., office hours, 8-10 a. m., 1-3 p. m., 7-8 p. m.

Horace Bonner, M. D., office hours, 9-12 a. m., 1:30-4:30 p. m.
Specialist in Eye, Ear, Nose and Throat Diseases.

H. C. McClelland, Dentist.

John Ranly, M. D., Eye Specialist.

Studies Prescribed for the Degree of Bachelor of Arts

FRESHMAN YEAR

First Term	Periods	Second Term	Periods
Religion (20)	2	Religion (20)	2
English (50 a, b, c)	4	English (51 a, b, c)	4
History (80)	2	History (81)	2
Latin (30)	7	Latin (31)	7
Greek (40)	6	Greek (41)	6

SOPHOMORE YEAR

First Term	Periods	Second Term	Periods
Religion (22)	2	Religion (22)	2
English (52 a, b, c)	4	English (53 a, b, c)	4
History (82)	2	History (83)	2
Latin (32)	7	Latin (33)	7
Greek (42)	6	Greek (43)	6
Logic (25)	2	Logic (25)	2

JUNIOR YEAR

First Term	Periods	Second Term	Periods
Religion (23)	2	Religion (23)	2
Psychology (26)	6	Psychology (26)	6
English (54 a, b, c)	4	English (55 a, b, c)	4
Latin (34)	7	Latin (35)	7
Greek (44)	6	Greek (45)	6
History (84)	2	History (85)	2

SENIOR YEAR

First Term	Periods	Second Term	Periods
Theodicy (24)	2	Theodicy (24)	2
Metaphysics (27)	6	Hist. of Phil. (29)	6
Ethics (28)	1	Ethics (28)	1
English (56 a, b)	4	English (57 a, b)	4
Latin (36)	7	Latin (37)	7
Greek (46)	6	Greek (46)	6

Studies Prescribed for the Degree of Bachelor of Letters

FRESHMAN YEAR

First Term

	Periods
Religion (20)	2
English (50 a, b, c)	4
History (80)	2
Latin (30)	7
French (70)	3
German (60)	2

Second Term

	Periods
Religion (20)	2
English (51 a, b, c)	4
History (81)	2
Latin (31)	7
French (71)	3
German (61)	2

SOPHOMORE YEAR

First Term

	Periods
Religion (22)	2
English (52 a, b, c)	4
History (81)	2
Latin (32)	7
French (72)	3
German (62)	2
Logic (25)	2

Second Term

	Periods
Religion (22)	2
English (53 a, b, c)	4
History (83)	2
Latin (33)	7
French (73)	3
German (63)	2
Logic (25)	2

JUNIOR YEAR

First Term

	Periods
Religion (23)	2
English (54 a, b, c)	4
Psychology (26)	6
Latin (34)	7
French (74)	3
German (64)	2
History (84)	2

Second Term

	Periods
Religion (23)	2
English (55 a, b, c)	4
Psychology (26)	6
Latin (35)	7
French (75)	3
German (65)	2
History (85)	2

SENIOR YEAR

First Term

	Periods
Religion (24)	2
English (65 a, b)	4
Ethics (29)	1
Metaphysics (28)	6
Latin (36)	7
French (76)	3
German (66)	2

Second Term

	Periods
Religion (24)	2
English (57a, b)	4
Ethics (27)	1
Philosophy (29) History	6
Latin (37)	7
French (77)	3
German (67)	2

SUBJECTS OF INSTRUCTION

THE COLLEGE OF ARTS AND LETTERS

Moral

Freshman Year. Two Periods a Week.

20. Nature and Distinction of Laws; Conscience; Sin; Virtue; Precepts of the Decalogue; Forms of Worship; Oaths and Vows; Obligation of Hearing Mass; Suicide; Murder; Scandal; Dueling; Duty and Right; Violation of Rights; Restitution; Contracts; Fraud; Lying; Detraction; Calumny; Violation of the Secret; Commandments of the Church; Fasting and Abstinence; Laws of Marriage; Christian Perfection; Evangelical Counsels; States of Life; Vocation. The Sacraments; Confession, Holy Communion, Holy Orders, Matrimony. Feasts, Ceremonies and Religious Practices of the Church.

Dogma

Sophomore Year. Two Periods a Week.

22. The Holy Religion; God, His Essence and Attributes; Blessed Trinity; Creation of the World; the Angels; Man; Original Sin; the Incarnation; Jesus Christ in Prophecy, on Earth, in Glory; the Work of Jesus Christ; Grace; Merit; Essence and Existence of the Sacraments, Effects and Efficacy of the Sacraments; Indulgences; Virtue; Four Last Things.

Christian Apologetics

Junior Year. Two Periods a Week.

23. 1. Religion, Revelation, Function, of Reason in matters of Faith.

2. Historical value of the Sacred Scriptures. The Pentateuch; the Pentateuch and Science—Geology, Astronomy, Biology; Paleontology. The Bible and modern discoveries in Egypt, Assyria, and Chaldea. Historical value of the Gospels.

3. Demonstration of the Divinity of the Christian religion. Miracles and Prophecies, Phenomenon of Hypnotism. Ten proofs of the Divinity of the mission of Jesus Christ and His work, the establishment of the Christian Religion. Christianity and Buddhism, Christian Science and Faith Cure. Truth of the Catholic Religion. (1) The Roman Catholic Church possesses the four

positive marks of the true Church. Protestantism. The Oriental Schismatic Church. Prerogatives conferred by Jesus Christ upon the Church. (2) Accusations brought against the Church. Intolerance; the Vicious Circle; the Inquisition; Galileo; Massacres of St. Bartholomew; Crusades; Wars of Religion; Revocation of the Edict of Nantes; Temporal Power of the Popes; Authority of the Popes in the Middle Ages; Bad Popes; the Church and Civilization.

Rational Theology

Senior Year. Two Periods a Week.

24. 1 Definition and scope. Relations to Dogmatic Theology. The Existence of God. Necessity of demonstrating the existence of God. Demonstration; arguments from motion, contingency, casuality, axiomatic truths, duty, moral sanctions, relativity, design, ontological argument. Atheism; Idealistic Atheism, Materialistic Atheism, practical Atheism, Religious and Moral Consequences of Atheism.

2. Nature and attributes of God; Manner of Determining the Attributes of God; the Essence of God, and His metaphysical attributes, simplicity, perfection; idea of the infinite; immutability, eternity, unity, omnipresence. Moral attributes of God or the divine personality; God's knowledge; divine knowledge and human knowledge; divine knowledge and human liberty; divine will. Pantheism among the ancients, in the Middle Ages. Modern Pantheists, Spinoza's theory of substance, Fichte, Shelling, Hegel, Anthropo morphism.

3. Creation and Evolution: Creation according to St. Thomas; evolution according to the Fathers; evolution and the Bible.

PHILOSOPHY

Sophomore Year. Logic. Two Periods a Week.

25. General Introduction; Object of Logic; Divisions of Logic; Plan of Logic.

Formal Logic: On Concepts and Terms; The Proposition; The Syllogism.

Applied Logic or Methology: On Method in General; Demonstration; Mathematical Demonstration; Method of the Physical Sciences; Method of the Natural Sciences; Method of the Moral Sciences; Errors and Sophisms; Truth and Science; The Principal Scientific Hypotheses.

Junior Year. Psychology. Six Periods a Week.

26. Object of Psychology: The Facts of Consciousness; The Faculties of the Soul; the Soul; Method of Experimental Psychology.

Treatise on Sensibility: Sense Perception; Consciousness of Sensation; Pleasure and Pain; the Mental Image; the Mem-

ory; Association of Ideas; Instinct; Appetency and Passion; the Motor Faculty.

TREATISE ON THE INTELLECT: Attention; Abstraction; Generalization; Conception; Judgment; Reasoning; First Principles.

TREATISE ON THE WILL: Nature of the Will; Moral Liberty; Determinism.

Senior Year. Metaphysics. Six Periods a Week.

27. General Introduction; Nature of the Subject; Certitude of Metaphysical Inquiry; The Method of Metaphysics.

TREATISE ON ONTOLOGY: Nature of Being; Attributes of Being; the True; The Beautiful; Art; The Esthetic Faculties; The Good.

TREATISE ON COSMOLOGY: The Existence of Eternal Reality; Matter; Motion; Life.

TREATISE ON RATIONAL PSYCHOLOGY: Nature of the Soul; The Union of the Body and Soul; The Soul Separated from the Body.

TREATISE ON THEODICY: The Existence of God; Nature and Attributes of God; Pantheism; Creation and Evolution.

Ethics.

28. A General View of the Science of Ethics. Conscience; Good and Duty; Merit; Responsibility and Sanction; Individual Ethics; Domestic Ethics; Social Ethics; Religious Ethics; Ethics and Political Economy.

History of Philosophy. Six Periods a Week.

29. General Introduction; Science according to Aristotle; Science according to Bacon; Science according to Comte; Definition of Philosophy; Oriental Philosophy; Greek Philosophy before Socrates; Plato, Aristotle; Philosophy of Rome; Scholastic Philosophy; Philosophy during the Renaissance; Bacon; Descartes, Malebranche, Spinoza, Leibnitz, Locke, Berkeley, Hume, Reid, Condillac, Kant; Contemporaneous Philosophy, Neo-Scholastic Philosophy.

LATIN

Freshman Year. Seven Periods a Week.

30. Cicero, Pro Archia; Virgil, Book VI; Horace, Select Odes.

Latin versification two hours a week. Latin composition and translation each two hours a week.

31. Cicero, Pro Marcello; De Senectute; De Amicitia. Horace, Ars Poetica.

Sight Reading, New Testament. Latin versification two hours a week. Latin composition and translation each two hours a week.

Sophomore Year. Seven Periods a Week.

32. Horace, Epistles and Satires; Tacitus, Agricola.

Latin composition and translation each two hours a week.

Latin versification twice a month.

33. Virgil, Georgics; Tacitus, Annals.

Latin Literature. Early writers to Cicero. Bi-monthly exercise in Latin versification. Latin composition and translation each two hours a week.

Junior Year. Seven Periods a Week.

34. Pliny, Letters; Juvenal, Satires; Seneca, Essays.

Latin Literature, Augustan writers and writers of the subsequent epochs.

35. Cicero, De Officiis; Plautus, Captivi; Selections from the Fathers.

Comparative study of Greek and Latin Literatures. Weekly exercises in Latin composition and translation. Bi-monthly exercise in Latin versification.

Latin conversation is a feature in all the classes.

Senior Year. Seven Periods a Week.

36. Terence, Andria; Quintilian, Books X. and XII. Weekly exercises in Latin composition and translation. Bi-monthly exercises in Latin versification.

37. Cicero, Quaestiones Tusculanae; Seneca, Three Tragedies. Weekly exercises, as above.

GREEK

Freshman Year. Six Periods a Week.

40. Grammar (White): Inflection; declension; conjugation of paideuo. Translations and themes. New Testament (N. J. Stoffel, C. S. C.)

41. Grammar: From the conjugation of paideuo to end of inflections. Versions and themes.

Aesop Fables. Greek Literature.

Sophomore Year. Six Periods a Week.

42. Inflections reviewed. Syntax of Articles, noun, pronoun. Translation exercises based on the authors. Greek Literature.

Xenophon, Anabasis; Lucian, Dialogues; Herodotus, Extracts.

43. Grammar; Syntax to end. Translation exercises based on the authors.

Aeschylus, Agamemnon, or Persae, or Prometheus Vinctus; St. John Chrysostom, Eutropius; Homer, Iliad, Book I.

Junior Year. Five Periods a Week.

44. Grammar: Review of entire Syntax. Translation and composition based on the authors.

Sophocles, Oedipus Rex; Philoctetes; Plato, Apology; Homer, Odyssey, Book I.

45. Euripedes, Iphigenia in Aulis, or Medea, or Alcestis; Demosthenes, Philippics or De Corona; Aristophanes, Birds.

Senior Year. Five Periods a Week.

46. Plutarch, Lives; Plato, Phædo. Lyrics from Greek poets; Sappho, Pindar.

ENGLISH

Freshman Year. Four Periods a Week.

50a. *Literary Criticism.*

Sentence; Paragraph; Complete Composition; Sublimity; Beauty; Wit and Humor; Melody; Personality in Literary Art.

The Letter: of Friendship; News Letter; Open Letter; History of the Letter; The Letter in Hebrew, Greek, and Latin Literature.

Letters of Cicero, Pliny, Lord Chesterfield, Pascal, Newman.

b. *Oratory and Forensics.*

Qualities; Plan; Appeal to Passions; Argument; Style; Modern Influences; History of Oratory; Representative Oratory.

Public Speaking; Debating; Extempore Speaking; Principles of Argumentation.

For Reference: Depew, Library of Oratory; Bautain, Art of Speaking; Raymond, Orator's Manual; Coppens, Oratorical Composition; Shurter, Public Speaking.

c. *English Classics.*

As You Like It; Speeches of Burke, O'Connell, Webster, Cicero, Demosthenes.

51a. *Literary Criticism.*

The ESSAY: Modern Use; Tracts and Pamphlets; Editorials; Representative Essayists—Plutarch, Xenophon, Cicero, Pliny, Bacon, Addison, Macaulay, Matthew Arnold.

BIOGRAPHY: Sources of Biography; Kinds—Obituary, Eulogy, Diatribe, Philippic, Critique, Private Papers, Private Journal, Memoirs, Letters. Representative Biographers—Boswell, Morley, Plutarch, Southey.

HISTORY: Historical Interpretation; Prejudice; Modern Scientific Method.

Noted Historians—Guizot, Hume, Macaulay, Hallam, Linguard, Prescott, Bancroft.

POETRY: Elements of Versification; The Epic, Lyric, Pastoral, Ode, Sonnet. Characteristics of authors and general poetic values.

b. *English Literature.*

THE FORMATIVE PERIOD.

1. The Anglo Saxon or Old English Period.
   Beowulf; the Seafarer; Our First Speech; Bede, Caedmon; Alfred.
2. The Anglo Norman Period.
   The Norman Conquest; Literary Ideals of the Normans; Geoffrey of Monmouth; Layamont.
3. The Age of Chaucer.
   Langland; Wickliffe; Mandeville; Wyatt; Surrey; Mallory.

For Reference: cf 53a.

c. *English Classics.*

Richard III.; The Tempest; Canterbury Tales; Bacon, Emerson, Spalding, Azarias, Essays; De Coverley Papers.

Sophomore Year. Four Periods a Week.

52a. *English Literature.*

THE ELIZABETHAN PERIOD.

Character of the Elizabethan Age.

The Non-Dramatic Poets—Spencer, Sackville, Sydney, Drayton.

Brief Study of the Drama; Shakespeare's Predecessor, Marlowe; Shakespeare, himself; His Contemporaries and Successors—Ben Johnson, Beaumont and Fletcher, Webster, Middleton, Haywood, Messinger.

Prose Writers: Bacon, Hooker, Raleigh.

THE MODERN PERIOD.

1. The Puritan Age.
   Literary Characteristics.
   Metaphysical Poets: Hubert, Herrick, Milton.
   Prose Writers: Bunyan, Taylor, Walton.
2. The Period of Restoration.
   Literary Characteristics.
   Authors: Dryden, Butler.

For Reference: cf 53a.

b. *The Short Story.*

The Rise and Place of the Short Story; Nature and Kinds of the Short Story.

Structure of the Short Story; Theme, Material, Plot, Plot Development, Opening of the Story, Setting and Body of the Story.

For Reference: cf 53b.

c. *English Classics.*

Hamlet, King Lear; Spenser, Faery Queen; Milton, Paradise Lost, Lycidas.

53a. *English Literature.*

THE MODERN PERIOD.

1. The Age of Classicism.
   Literary Characteristics.
   Authors: Pope, Swift, Addison, Johnson, Burke.
   The Revival of Romantic Poetry: Gray, Goldsmith, Cowper, Burns.
   The First English Novelists: Defoe, Richardson, Fielding, Smollett.
2. The Age of Romanticism.
   Literary Characteristics.
   Poets: Wordsworth, Coleridge, Southey, Scott, Byron, Shelley, Keats.
   Prose Writers: Lamb, De Quincey, Austen, Landor.
3. The Victorian Age.
   Literary Characteristics.
   Poets: Tennyson, Browning, Morris, Swinburne.
   Novelists: Dickens, Thackeray, Eliot, Bulwer Lytton, Blackmore, Meredith, Stevenson.
   Essayists: Macaulay, Carlyle, Ruskin, Matthew Arnold, Newman.
   The Spirit of Modern Literature.
   The Catholic Revival.

For Reference: Garnett and Goss, Illustrated History of English Literature; Jusserand, Literary History of the English People; Saintsbury, History of Elizabethan Literature; Stedman, Victorian Poets; Hazlitt, Lecture on the English Poets; Dowden, Studies in Literature; Minto, Characteristics of English Poets; Courthope, History of English Poetry; Lowell, Literary Essays; Palgrave, Golden Treasury; Jenkin's Literature; Brooke, Early English Literature; Crawshaw, The Making of English Literature.

b. *The Short Story.*

Structure (cont.)—Characters, dialogue, title, style, special characters.

Preparation for Authorship—Originality, talent, acquiring of vocabulary, the study of the short story.

The Manuscript and its Market—Writing the Story, Selling the Story.

For Reference: Brander Matthews, The Short Story, The Philosophy of the Short Story.

c. *English Classics.*

Pope, The Rape of the Lock; Milton, Ode on Immortality; Wordsworth, Keats, Shelley, and Browning. Poems; Tennyson, The Princess, The Idylls of the King.

Junior Year. Four Periods a Week.

54a. *American Literature.*

THE PERIOD OF BEGINNINGS (1608-1809).

The Colonial Writers: Smith, Mather, Edwards.

The Revolutionary Writers: Henry, Jefferson, Hamilton, Frenau, Franklin.

THE PERIOD OF ACHIEVEMENT (1809-1870).

The Knickerbocker School: Irving, Cooper, Bryant.

The New England Group—Poets and Essayists: Emerson, Longfellow, Whittier, Lowell, Holmes, Thoreau.

For Reference: cf 55a.

b. *Study of the Novel.*

Origin of the Novel: Elements, Egyptian Tales, Greek Romances, Mediæval Conglomerates, The Modern Novel.

For Reference: cf 55b.

c. *English Classics.*

Newman, Idea of a University; Scott, Quentin Durward; Thackeray, Henry Esmond; Dickens, Pickwick Papers; Lowell, Among my Books; Holmes, Poems; Emerson, Essays.

55a. *American Literature.*

THE PERIOD OF ACHIEVEMENT (cont.).

The New England Group—Orators, Novelists, Historians: Webster, Hawthorne, Stowe, Bancroft, Prescott, Parkman, Motley.

Early Southern Writers: Simms, Poe, Hayne, Timrod.

Writers of the Middle States: Taylor, Whitman, Stoddard, Curtis.

THE PRESENT PERIOD (1870-1910).

New England since 1870: Stedman, Aldrich, Hale, Warner, Fiske.

The New South: Lanier, Cable, Harrison, Page, Allen.

Recent Writers of the Middle States: Burroughs, Howells, James, Crawford, Stockton.

The Rise of Western Literature: Harte, Clemens, Eggleston, Field, Riley.

For Reference: Stedman and Hutchinson, Library of American Literature; Johnson, History of American Literature; Underwood, American Literature; Heydrick, Literature; Page, Chief American Poets; Trent and Wells, Colonial Prose and Poetry; Stedman, An American Anthology; Brownell, American Prose Masters.

b. *Study of the Novel.*

Development of the Modern Novel: Plot; Motive and Verisimilitude; Character; Background; Style.

For Reference: Horne, The Technique of the Novel; Hamilton, Materials and Methods of Fiction; Stevenson, A Gossip on Romance; Stoddard, A Study of the Novel; Saintsbury, The Historical Novel; Brander Matthews, Aspects of Fiction, The Historical Novel; Perry, A

Study of Prose Fiction; Whitcomb, The Study of a Novel; Jack, Essays on the Novel; Dawson, Makers of English Fiction; Phelps, Essays on Modern Novelists.

c. *English Classics.*

Stedman, Poems; Bulwer Lytton, Last Days of Pompeii; Jane Porter, Scottish Chiefs; Othello; Reading of Modern Novels.

Senior Year. Four Periods a Week.

56a. *The Study of the Drama.*

The Drama—Its Law; Dramatic Unity; Nature and Sources of Tragic Effect; Nature and Sources of Comic effect.

Its Technique: The Two Types of Drama; Logical Divisions of the Drama; Mechanical Divisions of the Drama; Character-Treatment; Plot in Comedy; Character-Treatment in Comedy.

COMPARATIVE STUDY—THE ANCIENT DRAMA.

For Reference: Moulton, Ancient Classical Dramas; Campbell, Guide to Greek Tragedy; Donaldson, The Theatre of the Greeks; Symmonds, The Greek Poets; Jevons, History of Greek Literature; Quinn, Helladian Vistas.

Roman Tragedy and Comedy: Origin and Development. Famous Authors.

For Reference: Brander Matthews, Development of the Drama; Seller, The Roman Poets of the Republic; Riley, Translation of Terrence and Plautus; Crutwell, History of Roman Literature.

Miracle and Mystery Plays: Origin and Development.

For Reference: Pollard, Miracle Plays.

French Comedy: Origin and Development.

For Reference: Fortier, Histoire de la Literature Francaise; Translation of Molliere's Works.

THE MODERN DRAMA.

French Tragedy: Origin and Development.
Authors: Corneille, Racine.

For Reference: Baudrillard, The Catholic Church, Renaissance and Protestantism; Fortier, Histoire de la Literature Francaise.

Spanish Drama: Origin and Development.
Authors: Lope de Vega, Calderon.

For Reference: Tichnor, History of Spanish Literature; McCarthy, Dramas of Calderon, Translated.

English Drama: Origin and Development.
Authors: Greene, Lyle, Marlowe, Shakespeare, Beaumont and Fletcher, Ben Johnson, Dryden, Wycherly.

For Reference: Moulton, Shakespeare as a Dramatic Artist; University Edition of Shakespeare's Works; Pollard, English Miracle Plays, Moralities and Interludes.

German Drama: Origin and Development.
Authors: Lessing, Schiller, Goethe.

For Reference: Baumgartner, Life of Goethe; Carlyle, Essays.

The Modern Romantic School. Authors: Rostand, Phillips, Ibsen, Sundermann, etc.

For Reference: Brander Matthews, Development of the Drama.

b. *English Classics.*

Midsummer Night's Dream, Twelfth Night; Azarias, The Philosophy of Literature. Reading from Sophocles, Aristophanes, Terence, Plautus, Moliere, Corneille, Racine.

57a. *The Study of Foreign Literature.*

The Italian Renaissance: Age of Dante; Italian Influence on English Literature.

The Age of Classicism: French Influence on English Literature.

Comparative Study of Modern Literatures: English, French, German, Spanish, Italian.

For Reference: Botta, Handbook of Universal Literature; Wright, Masterpieces of Greek Literature; Dean Church, Essay on Dante; Ozanam, Dante and the Philosophy of the XIII. Century; Ruskin's Works; Lowell's Essays, Vol. I.; Kelly, History and Criticism of Spanish Literature; Scherer, History of German Literature; Baumgartner, Weltliteratur.

b. *English Classics.*

Dante, Inferno; Lope de Vega, Star of Seville, Calderon, Secret in Words; Marlowe, Edward II., Faustus; Schiller, Mary Stuart; Goethe, Faust; Rostand, Cyrano de Bergerac; Chantecler.

GERMAN

Freshman Year. Three Periods a Week.

60. Advanced study of German Grammar. German Literature: I. and II. Periods, with selections from the authors of these periods. Lectures on German Epic and Lyric Poetry, with their representative writers.

61. German Conversation. German Literature: III., IV., and V. Periods, with selections from the authors of these periods. Detailed study of the Life and Works of Klopstock and of Wieland.

Selections to be made from the following: Klopstock's *Odes, Oberon, Nathan the Wise, Minna von Barnhelm, Die Braut von Messina.*

Sophomore Year. Three Periods a Week.

62. Translation from English into German. German Literature: VI. Period, with selections from the authors of this period. Lectures on German Drama, with its representative writers.

63. German Composition and Conversation. German Literature VI. Period, with selections from the authors of this period.

Detailed study of the Life and Works of Schiller and of Lessing. First and Second Semesters.

Selections to be made from the following: *Wallenstein* (three parts), *Maria Stuart, Emilia Galotti, Faust.*

Junior Year. Three Periods a Week.

64. Scientific German, and German Conversation. German Literature: VII. Period, with selections from the authors of this period. Lectures on German Prose (Historical, Critical, Philosophical, Oratorical, Romantic), with its representative writers.

65. Original Essays in German and German Conversation. German Literature: VII. Period with selections from the authors of this period. Detailed study of the Life and Works of Goethe and of Herder.

Selections to be made from the following: *Goetz von Berlichingen, Wilhelm Meister's Lehrjahre, Iphigenie in Tauris, Die Italienische Reise, Blaetter von Deutscher Art und Kunst, Selections from the Thirty Years' War.*

Senior Year. Two Periods a Week.

66. German Philosophical Works.

FRENCH

Freshman Year. Three Periods a Week.

70. Elementary Grammar, Pronunciation, written exercises. Based on Syms' First Year French.

71. Continuation of work done during the First Semester; reading of easy French short stories; study of easy memory selections; conversation.

Based on Syms' Second Year French.

Collateral Reading: *Fables Choisies de La Fontaine. Les Plus Jolis Contes des Fees Lazare.*

Sophomore Year. Three Periods a Week.

72. Advanced Grammar; written exercises; conversation; continuation of reading and memory selections of the first year.

Based on Syms' Third Year French.

Collateral Reading: Aldrich and Foster's French Reader. *Fleurs de France. Contes de Daudet.*

73. Continuation of the work of the preceding semester.

Syms' Third Year French is completed; a general review of French Grammar and exercises in French Composition weekly.

Collateral Reading: *Choix de Contes Contemporains. Contes Choisis* de J. Lemaitre. *Contes Choisis* de Rene Bazin. Plays selected from Labiche and Legouve.

Junior Year. Three Periods a Week.

74. In this course the French language is exclusively used. French Literature of the X,, XII. XIII., XV., and XVI., centuries

is insisted upon, but a thorough study of the XVII. century and of the principal authors is made.

Text. Fortier's *Histoire de la Litterature Francaise.*

Special study of Corneille, *Le Cid, Horace, Polyeucte* (only one); Racine, *Athalie, Andromaque, Brittanicus,* (only one); Molière, *l'Avare, le Misanthrope, le Bourgeois Gentilhomme;* Boileau, *Selections;* Bossuet, *Oraisons Funebres, Sermons, Fenelon, Telemaque.*

75. Continuation of the work started in the preceding semester; special study of the XVIII. and XIX. centuries.

Selections from Voltaire, Rousseau, and others of the XVIII. century.

Special study of Chateaubriand, *Atala, Avantures du Dernier des Abencerges, poems.* La Triade Francaise: Lamartine, Alfred de Musset, and Victor Hugo. H. de Bornier, *La Fille de Roland;* Rostand, *Cyrano de Bergerac* and *l'Aiglon.*

Lectures in French will be given on other authors and the influence on French thought and life.

Senior Year. One Period a Week.

76. Reading of French Philosophers: Pascal, *Pensees;* Descartes, *Discours sur la Methode;* Cousin, *le Vrai, le Beau et le Bien.*

HISTORY

Freshman Year. Two Periods a Week.

80. Christianity and the Roman Empire; Origin of the Papal States; Charlemagne; The Papacy and the Empire.

81. Mediæval Universities; Crusades; Rise of the Western States; Religious Orders; Schism of the West.

Sophomore Year. Two Periods a Week.

82. The Renaissance; Modern Maritime Enterprise; The Great Religious Schism; Thirty Years' War; Anglo-Indian Empire; French Absolutism.

83. The French Revolution; The Napoleonic Wars; The French Republic; Reform Movement; Unification of Germany and Italy; Kulturkampf in Germany. Eastern Question; Awakening of the Orient; Current Events.

Junior Year. Two Periods a Week.

84. Constitutional History of the United States; Principles and Applications of the Constitution; Duties of an American Citizen.

85. Labor Question; Race Problem; Social Reformers.

For Reference: Guggenberger, General History of the Christian Era; Allard, Works; Salembier, Schism of the West; Hergenroether. Kirchengeschichte; Kirsch, Kirchengeschicte; Pastor, History of the Popes; Reinsch, Essays.

ELEMENTARY LAW

Freshman Year. One Hour a Week.

86. The new course of Elementary Law has for its purpose to teach the scope and field of jurisprudence. Law will be shown as a science and as a structure, and classification and explanation of the various departments will be made clear to the classes without treating law technically. The course will be supplemented by lectures on business law.

ART DEPARTMENT

A well-rounded education should embrace a knowledge of art. True art has both an æsthetic and a moral value. It uplifts the imagination and refines the sensibilities. It enables us to reproduce that beauty and harmony in our lives. The aim of the art course, therefore, will be to train the eye to see beauty and to train the hand to reproduce it.

Instructions are given in pen, and charcoal drawing, in water color painting, and painting in oils. Studies are made from objects, from casts, and from the human figure. The charming scenery of the Miami Valley affords ample opportunities for outdoor sketching.

A History of Art, in its three main branches of painting, sculpture, and architecture, completes the course. The College has a choice collection of photographs prints of the world's masterpieces, to which the students have access at all times.

PHYSICAL TRAINING

Since it is the function of education to train the growing individual into useful and sterling manhood, it is all important that physical education demand attention in any scheme of educational work, since the capacity for usefulness is so largely determined by the physical health of the individual.

In order that these needs may be adequately supplied, a large variety of work—hygienic, corrective, recreative, and competitive—is offered in regularly organized classes under proper guidance of a physical director.

The students of all classes take physical training. One-fourth credit is given yearly to students attaining a satisfactory average in the classes of physical training.

One semester hour is devoted weekly to physical training in the gymnasium or on the campus.

Unless physically unfitted for physical training, the students of all the classes shall attend every period of assigned work. Exception to this rule can be made only with the permission of the President of the college.

A course of lectures will be given by Mr. Emil Hocke during the year on Personal Hygiene and Physiology of bodily exercises.

Required Work.

1. Floorwork: gymnastic and military tactics.
2. Hygienic and corrective work: free exercises with or without hand apparatus.
3. Recreative and competitive work: gymnastic games.
4. Athletic: class work in athletic exercises.

MUSIC DEPARTMENT

The Music Department of the College is intended primarily to accommodate those that wish to pursue the study of music for its cultural advantages and as a refined accomplishment. On this idea the programs that follow are based.

Piano

Grade A. Position and playing motions. Finger exercises. Elements of notation. Studies: W. S. B. Mathews' Standard Graded Course, Grade I., or equivalent. Broken chords in major triads. Major scales. Pieces.

Grade B. Studies: W. S. B. Mathews' Standard Graded Course, Grade II. Broken chords in major and minor triads. Major, minor, and chromatic scales. Transposition. Elementary octave and chord practice. Easy movements from Sonatinas. Pieces. Leading facts in musical biography.

Grade C. Studies: W. S. B. Mathews' Standard Graded Course, Grade III. Broken chords and arpeggios in major and minor triads and in dominant and diminished sevenths. Scales, octaves, and chords. Movements from Sonatinas. Pieces. Elementary notions of harmony.

Grade D. Studies: W. S. M. Mathews' Standard Graded Course, Grade VI. Technic outlined in Grade C in greater speed and covering greater range of keyboard. Major, minor, and chromatic scales in double thirds and sixths. Movements from Sonatas. Pieces. Harmony.

Violin

..*Grade A.* Elementary exercises. Hermann, Bk. I, Part I and II. Goby Eberhardt, Part I. Scales in first position. Bowing exercises. Studies: de Beriot, Wohlahrt, Schradieck, Dancla, Hohmann, Hofmann, Sevcik, Op. 6; Kayser, Op. 20, Bk. I; pieces by Saenger, Missa, Dancla, and others.

Grade B. Finger and bowing exercises. Hermann, Bk. I, Part III., and Bk. II. Goby Eberhardt, Part II. and III. Scales. Kayser, Op. 20, Bk. II.; Op. 44, Part .; Dont, 24 exercises; Wohlahrt, Op. 45, Part . and II.; Op. 54, Part I.; Hans Sitt, Op. 32, Part I.; Sevcik technical studies; Alard; de Beriot; Blumenstengel scale studies; Mazas; solos by Dancla and others; duets by Dancla, Mazas, Pleyel.

Grade C. Bowing exercises. Scales (three octaves). Studies: Dont, Mazas, Sevcik, Sitt, Op. 32, Part II. and III.; Wohlfahrt, Op. 54, Part II. and III.; Kreutzer Etudes; Fiorillo Etudes. Halir scale studies; Schradieck, I., II., III. Solos: David, de Beriot, Air Varies, Raff, and others.

Grade D. Scales (in three octaves, in thirds and octaves). Arpeggios; Rode Caprices; Kreutzer and Fiorillo Etudes combined; Campagnoli, seven divertisements. Solos: Wieniawski, Beethoven, Alard, Ries, etc. Concertos: Rode, de Beriot, Viotti, Sonatas by Handel, Mozart, Haydn, etc.

For other instruments similar courses will be arranged, if warranted by the number of applicants.

COLLEGE OF ENGINEERING

The Department of Engineering, organized September, 1910, is designed to satisfy an oft-repeated desire and to fill a long-felt need. The department is a natural outgrowth of the science courses which have always received considerable attention at St. Mary's.

No effort is spared to acquaint the student body thoroughly with the fundamental principles and to give him a good insight into the theoretical analysis of engineering problems. While emphasis is laid on fundamental theory, continual attention is paid to the solution of practical problems for the purpose of imbedding principles and illustrating the lines of their general industrial application. At the same time students are trained to habits of initiative and industry, and will thus be well prepared to adapt themselves readily to actual conditions and requirements, and to grapple with new problems that from time to time confront the professional engineer.

Lecture and text-book courses are accomplished throughout by quantitative work in well-equipped laboratories.

Frequent visits are made to accessible engineering establishments to make the student thoroughly conversant with the trend of current engineering practice. For such purposes Dayton offers exceptional facilities owing to the great number and variety of engineering plants located in the city and vicinity.

Lectures by engineers in active service will help to keep the student in touch with professional work.

REQUIREMENTS OF ADMISSION to the COLLEGE OF ENGINEERING

Candidates for admission to the College of Engineering must be sixteen years old. They must give evidence of having satisfactorily completed an amount of preparatory work averaging fifteen units. By a unit is meant a subject pursued throughout the year, comprising four or five recitations per week. Studies pursued for half a year entitle to half a unit.

In the case of Graduates of a Preparatory School or a High School having a four years' course, the diploma of graduation may be accepted in lieu of an entrance examination.

In the latter case blanks of admission will be supplied by St. Mary's College, which must be filled out and signed by the proper authority of the Preparatory School or High School.

The subjects of the fifteen units required for admission are arranged in two gorups.

GROUP I.	REQUIRED SUBJECTS	10 UNITS
Algebra	To Quadratics	1 unit
Algebra	Through Quadratics, Binominal Theorem	½ unit
Geometry	Plane	1 unit
Geometry	Solid	½ unit
English	Composition and Rhetoric	2 units
Languages	Latin or German or French	3 units
Physics	Elementary with Laboratory Practice	1 unit
Chemistry	Inorganic with Laboratory Practice	1 unit

GROUP II.	OPTIONAL SUBJECTS	5 UNITS
Latin	Advanced	1 to 4 units
German	Advanced	1 to 4 units
Greek	Elementary	1 to 3 units
Trigonometry	Plane	½ unit
History	Ancient and Modern, Civics	2 units
Astronomy	Descriptive	½ unit
Botany	Elementary	½ unit
Zoölogy	Elementary	½ unit
Physiology	First Elements	½ unit
Physiography	Elements	½ unit
Free Hand Drawing		½ unit
Mechanical Drawing		1 unit
Manual Training or Shopwork		1 unit

COLLEGE OF ENGINEERING

Faculty

Rev. Bernard P. O'Reilly, S. M.
President

Rev. Joseph A. Tetzlaff, S. M.
Vice-President

Bro. Adam Hofmann, S. M., M. Sc
Mathematics

Bro. William J. Wohlleben, S. M., M. Sc., Ph. D.
Chemical Engineering, Mineralogy

Bro. Ulrich J. Rappel, S. M., B. A., M. Sc., Ph. D.
Formerly Assistant Professor of Physics
at the University of Fribourg, Switz.
Electrical Engineering, Physics

Bro. William A. Beck, S. M., M. Sc.
Mathematics, Surveying

Bro. Francis J. O'Reilly, S. M., M. A.
Mechanical Drawing, English

Rev. Aloys Schratz, S. M.
Ethics

Rev. Walter Tredtin, S. M.
Apologetics, Dogma, Moral

Melrose G. Kopf, E. E.
Machine Design

Francis E. Canny, B. A., LL. B.
Elementary Law

Emil Hocke
Physical Instructor

STUDENTS' ADVISORY COMMITTEE

Bro. Adam Hofmann, S. M.

Bro. William J. Wohlleben, S. M.

Bro. Ulrich J. Rappel, S. M.

SPECIAL LECTURERS

F. J. Cellarius, C. E.
(Member of the Ohio Engineering Society)
Civil Engineer, Dayton

Frank Morrison Tait
General Manager Dayton Lighting Co.

Edward A. Moritz
Civil Engineer, Dayton

F. O. Clements, A. M., M. S.
Chief Chemist of the National Cash Register Company

Harry F. Finke, B. S.
Assistant City Civil Engineer

Louis H. McFadden, A. M.
Chief Chemist of Lowe Bros. Paint Company, Dayton, Ohio

COLLEGE OF ENGINEERING

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Lecture and text-book courses are accompanied throughout by quantitative work in well-equipped laboratories.

Frequent visits are made to accessible engineering establishments to make the student thoroughly conversant with the trend of current engineering practice. For such purposes Dayton offers exceptional facilities owing to the great number and variety of engineering plants located in the city and vicinity.

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REQUIREMENTS OF ADMISSION
to the
COLLEGE OF ENGINEERING

Candidates for admission to the College of Engineering must be sixteen years old. They must give evidence of having satisfactorily completed an amount of preparatory work averaging fifteen units. By a unit is meant a subject pursued throughout the year, comprising four or five recitations per week, or one hundred and ninety periods of sixty minutes each. Studies pursued for half a year entitle to half a unit.

In the case of Graduates of a Preparatory School or a High School having a four years' course, the diploma of graduation may be accepted in place of an entrance examination.

In the latter case blanks of admission will be supplied by St. Mary's College, which must be filled out and signed by the proper authority of the Preparatory School or High School.

Algebra	Through Quadratics, Binomial Theorem	½ unit
Geometry	Solid	½ unit

The subjects of the fifteen units required for admission are arranged in two groups.

GROUP I.	REQUIRED SUBJECTS	10 UNITS.
Algebra	To Quadratics	1 unit
Geometry	Plane	1 unit
English	Composition and Rhetoric	2 units
Languages	Latin or German or French	3 units
Physics	Elementary with Laboratory Practice	1 unit
Chemistry	Inorganic with Laboratory Practice	1 unit

GROUP II.	OPTIONAL SUBJECTS	5 UNITS
Latin	Advanced	1 to 4 units
German	Advanced	1 to 4 units
Greek	Elementary	1 to 3 units
Trigonometry	Plane	½ unit
History	Ancient and Modern, Civics	2 units
Astronomy	Descriptive	½ unit
Botany	Elementary	½ unit
Zoölogy	Elementary	½ unit
Physiology	First Elements	½ unit
Physiography	Elements	½ unit
Free-Hand Drawing		½ unit
Mechanical Drawing		1 unit
Manual Training or Shopwork		1 unit

NECESSARY EXPENSES

Matriculation Fee (payable on first entrance)	$ 5 00
Tuition, Board, Laundry	240 00
Library, Athletic Fee, and Admission to Lectures, Entertainments, Intercollegiate Games and Contests	10 00
Chapel Service	5 00

PAYABLE IN ADVANCE, as follows:

On Entrance in September

Matriculation Fee (payable first year only)	$ 5 00
First Payment on Board, Tuition and Laundry	120 00
Library, Athletic Fee, etc.	10 00
Deposit on Book and Stationery Account	10 00
Chapel Service	5 00
Total	$150 00

On January 20

Board, Tuition and Laundry	$120 00

In this Second Payment must be included all Extra Expenses, such as charges for use of Laboratories, Music, etc., and any extra expenses the student may have incurred.

Laboratory Fees—	
Physical	$ 15 00
Chemical	15 00
Biological	5 00
Mineralogical	5 00
Electrical	15 00
Mechanical	10 00
Civil Engineer	5 00
Drafting Room	5 00
Deposit for Breakage—	
Freshman	5 00
Sophomore and above	10 00
Graduation Fee	10 00

RATES FOR DAY SCHOLARS

Tuition rates for Day Scholars are payable half-yearly in advance, as follows:

Matriculation Fee (payable first year only)	$ 1 00
College of Engineering; all classes (per annum)	40 00

Laboratory and Graduation Fees (as above).

ELECTRICAL ENGINEERING

The course in Electrical Engineering aims to give a broad knowledge of the Theory of Electricity and of its applications in the arts. The instruction is given by lectures, recitations, and laboratory work.

As the modern development of Electrical Engineering has taken place largely along lines dependent on a thorough acquaintance with the Theory of Electricity, great importance is attached to this study.

In the junior and senior years the lectures have a distinctly professional character.

The theoretical work is closely linked with an extended course of laboratory exercises. In the laboratories General Physical Measurements are first taken up, followed by General Electrical Measurements. This leads to work in Electrical Testing and Electrical Engineering where distinctly engineering problems are taken up. The work is so arranged as to develop in the students habits of observation, precision, initiative and industry.

COURSE IN ELECTRICAL ENGINEERING

Freshman Year

First Term

Subjects	Weeks	Hours per Week
Christian Doctrine (100)	17	1½
English (110, 111)	17	2
French (120)	17	3
Scientific German (125)	17	2
Higher Algebra (151)	17	4
Trigonometry (150)	17	5
Mechanical Drawing (171)	17	8
Qualitative Chemistry (201)	17	3
Qualitative Analysis (202)	17	3
Use of Calculating Machines		

Second Term

Christian Doctrine (100)	17	1½
English (110, 111)	17	2
French (121)	17	3
Scientific German (125)	17	2
Higher Algebra (171)	17	4
Descriptive Geometry (170)	17	8
Analytical Geometry (152)	17	5
Qualitative Chemistry (201)	17	3
Qualitative Analysis (202)	17	3
Shop Work (230, 231)	8	44

COURSE IN ELECTRICAL ENGINEERING

Sophomore Year

First Term

Subjects	Weeks	Hours per Week
Christian Doctrine (101)	17	1½
English (112, 113)	17	2
French (122)	17	3
Machine Drawing (172)	17	5
Calculus (153)	17	5
Vector Analysis (155)	17	1
Physics (180)	17	3
Physical Laboratory (181)	17	6
Surveying (163)	17	5

Second Term

Christian Doctrine (101)	17	1½
English (112, 113)	17	2
French (123)	17	3
Machine Drawing (172)	17	5
Calculus (154)	17	3
Vector Analysis (155)	17	1
Differential Equations (165)	17	2
Physics (180)	17	3
Physical Laboratory (181)	17	6
Shop Work (232, 233, 234)	8	44

COURSE IN ELECTRICAL ENGINEERING

Junior Year

First Term

Subjects	Weeks	Hours per Week
Christian Doctrine (102)	17	1½
Spanish (optional) (130)	17	2
Dynamo Electric Machinery (186)	17	3
Electrical Measurements (185)	17	3
Theoretical Mechanics (160)	17	5
Applied Mechanics / Strength of Materials (161)	17	3
Theory of Mechanism (157)	17	1
Electrical Laboratory (188)	17	5
Machine Design (173)	17	3

Second Term

Christian Doctrine (102)	17	1½
Spanish (optional) (130)	17	2
Dynamo Electric Machinery (186)	17	3
Electrical Measurements (185)	17	3
Theoretical Mechanics (160)	17	5
Applied Mechanics / Strength of Materials (161)	17	3
Theory of Mechanism (157)	17	1
Electrical Laboratory (188)	17	5
Thermodynamics (158)	17	2
Machine Design (173)	17	3
Electrical Machine Construction (194)	8	44

COURSE IN ELECTRICAL ENGINEERING

Senior Year

First Term

Subjects	Weeks	Hours per Week
Christian Doctrine (103)	17	1½
Theory of Alternating Currents and Alternating Current Machinery (187)	17	3
Electrical Measurements, Illumination, and Photometry (185)	17	3
Electrical Laboratory (189)	17	5
Philosophy: Logic (104)	17	2
Electrical Design (191)	17	5
Seminar (193)	17	1

Second Term

Christian Doctrine (103)	17	1½
Theory of Alternating Currents and Alternating Current Machinery (187)	17	3
Electrical Measurements (185)	17	3
Electrical Distribution and Control (190)	17	3
Electrical Laboratory (189)	17	5
Hydraulics (162)	17	2
Philosophy: Psychology (105)	17	2
Electrical Design (191)	17	5
Economics (106)	17	1
Seminar (193)	17	1
Excursions (192)		

CHEMICAL ENGINEERING

In arranging the subjoined Course of Chemical Engineering, the Faculty has aimed at meeting the needs of such students who desire to obtain a fundamental knowledge of Chemistry and other allied subjects so as to enable them to deal with problems of construction, operation, and maintenance in connection with manufacturing processes that are essentially chemical in character. With this end in view, the course includes instruction in Qualitative and Quantitative Chemical Analysis in its various phases, in Organic and Technical Chemistry. In the Laboratory the Synthesis of typical chemical compounds leads up to the actual analysis of mixtures, alloys, and minerals according to the gravimetric, volumetric, and electrolytic methods. This work is followed by extensive practice in the domains of Organic Chemistry, Organic Technology, and Physical Chemistry. Collateral courses include Mechanical Drawing, Higher Mathematics, Advanced Physics, Mineralogy, the study of Electrical Currents and Machinery, and of one or more Modern Languages. The student is thus expected to be equipped to solve the problems constantly confronting the Chemical Engineer in the industrial field.

The Chemical Laboratories are provided with a complete stock of all necessary glass, porcelain, platinum and other metal ware, water, gas, and air-blast. Each student is provided with a locker containing all necessary apparatus for his work. Special apparatus for gas, fuel, water, and mineral analysis is also at hand, as well as analytical balances of standard makes and great sensitiveness. Modern appliances are also at the disposal of the student for electro-analysis. Numerous fume hoods insure proper ventilation of the rooms. Regard for the comfort of one's fellow-students is insisted upon. The Department Library contains standard chemical periodicals and publications in English, German, and French.

COURSE IN CHEMICAL ENGINEERING

Freshman Year

First Term

Subjects	Weeks	Hours per Week
Christian Doctrine (100)	17	1½
English (110, 111)	17	2
French (120)	17	3
Scientific German (125)	17	2
Higher Algebra (151)	17	5
Trigonometry (150)	17	5
Mechanical Drawing (171)	17	8
Qualitative Chemistry (201)	17	3
Qualitative Analysis (202)	17	3
Use of Calculating Machines		

Second Term

Christian Doctrine (100)	17	1½
English (110, 111)	17	2
French (121)	17	3
Scientific German (125)	17	2
Descriptive Geometry (170)	17	8
Analytic Geometry (152)	17	5
Qualitative Chemistry (201)	17	2
Qualitative Analysis (202, 203)	17	4
Shop Work (230, 231)	8	44

COURSE IN CHEMICAL ENGINEERING

Sophomore Year

First Term

Subjects	Weeks	Hours per Week
Christian Doctrine (101)	17	1½
English (112, 113)	17	2
French (122)	17	3
Quantitative Analysis (204)	17	7
Calculus (153)	17	5
Vector Analysis (155)	17	1
Physics (180)	17	3
Physical Laboratory (181)	17	6
Mineralogy	17	2

Second Term

Christian Doctrine (101)	17	1½
English (112, 113)	17	2
French (123)	17	3
Quantitative Analysis (205)	17	7
Calculus (154)	17	3
Vector Analysis (155)	17	1
Differential Equations (156)	17	2
Physics (180)	17	3
Physical Laboratory (181)	17	6
Shop Work (232, 233, 234, 235)	8	44

COURSE IN CHEMICAL ENGINEERING

Junior Year

First Term

Subjects	Weeks	Hours per Week
Christian Doctrine (102)	17	1½
Spanish (optional) (130)	17	2
Technical Analysis (207)	17	6
Electrochemistry (206)	6	6
Organic Chemistry (208)	17	3
Theoretical Mechanics (160)	17	5
Applied Mechanics (101) / Strength of Materials	17	3
Electrical Laboratory (188)	17	3
Machine Design (173)	17	3
Seminar (212, 213)	17	1

Second Term

Christian Doctrine (102)	17	1½
Spanish (optional) (130)	17	2
Technical Analysis (207)	12	5
Organic Chemistry (208)	17	3
Chemical Technology (210)	17	2
Theoretical Mechanics (160)	17	5
Applied Mechanics (101) / Strength of Materials	17	3
Electrical Laboratory (188)	17	3
Thermodynamics (158)	17	2
Machine Design (173)	17	3
Seminar (212, 213)	17	1

COURSE IN CHEMICAL ENGINEERING

Senior Year

First Term

Subjects	Weeks	Hours per Week
Christian Doctrine (103)	17	1½
Physical Chemistry (211)	17	2
Organic Practice (209)	17	12
Chemical Technology (210)	17	2
Philosophy: Logic (104)	17	2
Seminar (212, 213)	17	1
Inspection Visits (214)		

Second Term

Christian Doctrine (103)	17	1½
Organic Practice (209)	17	12
Physical Chemistry (211)	17	2
Hydraulics (162)	17	2
Philosophy: Psychology (105)	17	2
Economics (106)	17	1
Seminar (212, 214)	17	1
Inspection Visits (215)		

COURSE IN CIVIL ENGINEERING

The course in Civil Engineering is so designed as to give the student a thorough theoretical and practical training in the fundamental sciences upon which professional practice is based. Moreover, care is taken to make this foundation broad enough to prepare the student to pursue to advantage any line of Civil Engineering practice, whether it be Topographical, Railroad, Municipal, Structural or Hydraulic. All of these are but ramifications of the same parent stem and grow from a relatively compact body of principles. It is in these principles that the student is trained by practice in the class room, drafting room, field and testing laboratory.

As in the other departments, special attention is given to develop in the student habits of observation, precision, initiative and industry. Particular stress is laid upon the systematic reading of current technical publications.

Visits of inspection are paid to civil engineering works of note, both completed and in process of construction. After each such visit the student is obliged to draw up a detailed critical report.

COURSE IN CIVIL ENGINEERING

Freshman Year

First Term

Subjects	Weeks	Hours per Week
Christian Doctrine (100)	17	1½
English (110, 111)	17	2
French (120)	17	3
Scientific German (125)	17	2
Higher Algebra (151)	17	5
Trigonometry (150)	17	5
Mechanical Drawing (171)	17	8
Qualitative Chemistry (201)	17	3
Qualitative Analysis (202)	17	3
Use of Calculating Machines		

Second Term

Christian Doctrine (100)	17	1½
English (110, 111)	17	2
French (121)	17	3
Scientific German (125)	17	2
Descriptive Geometry (179)	17	8
Analytical Geometry (152)	17	5
Qualitative Chemistry (201)	17	2
Qualitative Analysis (202, 203)	17	4
Shop Work (230, 231)	8	44

COURSE IN CIVIL ENGINEERING

Sophomore Year

First Term

Subjects	Weeks	Hours per Week
Christian Doctrine (101)	17	1½
English (112, 113)	17	2
French (122)	17	3
Mechanical Drawing (172)	17	5
Calculus (153)	17	5
Vector Analysis (155)	17	1
Physics (180)	17	3
Physical Laboratory (181)	17	6
Surveying (163)	17	6
Mineralogy (220)	17	2

Second Term

Christian Doctrine (101)	17	1½
English (112, 113)	17	2
French (123)	17	3
Mechanical Drawing (172)	17	5
Calculus (154)	17	3
Vector Analysis (155)	17	1
Differential Equations (156)	17	2
Physics (180)	17	3
Physical Laboratory (181)	17	6
Topographical Surveying	17	5
Geology (221)	17	2
Stereotomy (300)	17	3
Shop Work (232, 233, 234)	8	44

COURSE IN CIVIL ENGINEERING

Junior Year

First Term

Subjects	Weeks	Hours per Week
Christian Doctrine (102)	17	1½
Applied Mechanics / Strength of Materials (161)	17	8
Machine Design (173)	17	4
Stresses (301)	17	6
Railroad Engineering (303)	17	5
Electrical Engineering Laboratory (305)	17	3
Surveying (163)	17	2

Second Term

Christian Doctrine (102)	17	1½
Applied Mechanics / Strength of Materials (161)	17	8
Machine Design (173)	17	4
Hydraulics (306)	17	5
Graphic Statics (302)	17	5
Practical Astronomy and Geodesy (307)	17	4
Railroad Engineering (303)	17	5
Electrical Engineering Laboratory (305)	17	3

COURSE IN CIVIL ENGINEERING

Senior Year

First Term

Subjects	Weeks	Hours per Week
Christian Doctrine (103)	17	1½
Economics (106)	17	2
Philosophy: Logic (104)	17	2
Prime Movers (308)	17	2
Masonry (309)	17	5
Theory of Structures: Bridges and Similar Structures (310)	17	8
Hydraulic and Sanitary Engineering (311)	17	5
Railroad Engineering (304)	17	1

Second Term

Christian Doctrine (103)	17	1½
Philosophy: Psychology (105)	17	2
Prime Movers (308)	17	4
Highway Engineering (312)	17	1
Theory of Structures: Bridges and Similar Structures (310)	17	8
Hydraulic and Sanitary Engineering (311)	17	4
Railroad Engineering (304)	17	4

COURSE IN MECHANICAL ENGINEERING

The course in Mechanical Engineering is so designed as to first give the student a thorough training in Mathematics, Physics and Applied Mechanics. Then by means of lectures, laboratory work and drafting room work the student is made familiar with the various problems that confront the mechanical engineer.

As a certain amount of training in the Mechanical Arts is necessary for the intelligent and successful designing of machinery, the student is given exercise in the use of shop tools, in pattern work, foundry practice, forging and machine tool work.

Throughout the course special attention is given to develop in the student habits of observation, precision, initiative and industry. Particular stress is laid upon the systematic reading of current technical publications.

Dayton, the home of the National Cash Register Company and the city of a thousand factories, offers unusual advantages for visits of inspection to manufacturing establishments and power plants. After each such visit the student is required to draw up a detailed critical report.

COURSE IN MECHANICAL ENGINEERING

Freshman Year

First Term

Subjects	Weeks	Hours per Week
Christian Doctrine (100)	17	1½
English (110, 111)	17	2
French (120)	17	3
Scientific German (125)	17	2
Higher Algebra (151)	17	5
Trigonometry (150)	17	5
Descriptive Geometry	5	8
Mechanical Drawing (171)	12	8
Qualitative Chemistry (201)	17	3
Qualitative Analysis (202)	17	3
Use of Calculating Machines.		

Second Term

Christian Doctrine (100)	17	1½
English (110, 111)	17	2
French (121)	17	3
Scientific German (125)	17	2
Descriptive Geometry (170)	17	8
Analytical Geometry (152)	17	5
Qualitative Chemistry (201)	17	2
Qualitative Analysis (202)	17	4
Shop Work (230, 231)	8	44

COURSE IN MECHANICAL ENGINEERING

Sophomore Year

First Term

Subjects	Weeks	Hours per Week
Christian Doctrine (101)	17	1½
English (112, 113)	17	2
French (122)	17	3
Mechanical Drawing (172)	17	5
Calculus (153)	17	5
Vector Analysis (155)	17	1
Physics (180)	17	3
Physical Laboratory (181)	17	6
Surveying (163)	17	5

Second Term

Christian Doctrine (101)	17	1½
English (112, 113)	17	2
French (123)	17	3
Mechanical Drawing (172)	17	5
Calculus (154)	17	3
Vector Analysis (155)	17	1
Differential Equations (156)	17	2
Physics (180)	17	3
Physical Laboratory (181)	17	6
Shop Work (232, 233, 234)	8	44

COURSE IN MECHANICAL ENGINEERING

Junior Year

First Term

Subjects	Weeks	Hours per Week
Christian Doctrine (102)	17	1½
Applied Mechanics / Strength of Materials (161)	17	8
Machine Design (173)	17	4
Thermodynamics (158)	17	2
Mechanical Laboratory (313)	17	4
Metallurgy of Iron (332)	17	1
Steam Engineering (330)	17	3
Engine and Boiler Design (331)	17	6
Electrical Engineering Laboratory (305)	17	3
Inspection Visits		

Second Term

Christian Doctrine (102)	17	1½
Applied Mechanics / Strength of Materials (161)	17	8
Theoretical Mechanics (160)	17	5
Machine Design (173)	17	10
Hydraulics (306)	17	2
Steam Power Plants (333)	17	4
Electrical Engineering Laboratory (305)	17	3
Inspection Visits		

COURSE IN MECHANICAL ENGINEERING

Senior Year

First Term

Subjects	Weeks	Hours per Week
Christian Doctrine (103)	17	1½
Economics (106)	17	2
Philosophy: Logic (104)	17	2
Gas Power Plants (334)	17	2
Dynamics of Machines (335)	17	2
Mechanical Laboratory (313)	17	6
Power Machinery (336)	17	11
Electrical Laboratory (305)	17	3

Second Term

Christian Doctrine (103)	17	1½
Philosophy: Psychology (105)	17	2
Economics (106)	17	2
Hydraulic Motors (337)	17	2
Rapid Production Machinery (338)	17	1
Pumps and Compressors (339)	17	2
Heating and Ventilation (340)	17	1
Mechanical Laboratory (313)	17	7
Power Machinery Design (336)	17	11
Inspection Visits		

SUBJECTS OF INSTRUCTION

100. Moral. Freshman Year. One and One-half Hours a Week.

Nature and Distinction of Laws; Conscience; Sin; Virtue; Precepts of the Decalogue; Forms of Worship; Oaths and Vows; Obligation of Hearing Mass; Suicide; Murder; Scandal; Dueling; Duty and Right; Violation of Rights; Restitution; Contracts; Fraud; Lying; Detraction; Calumny; Violation of the Secret; Commandments of the Church; Fasting and Abstinence; Laws of Marriage; Christian Perfection; Evangelical Counsels; States of Life; Vocation. The Sacraments: Confession ,Holy Communion, Holy Orders, Matrimony. Feasts, Ceremonies and Religious Practice of the Church.

101. Dogma. Sophomore Year. One and One-half Hours a Week.

The Holy Religion; God, His Essence and Attributes; Blessed Trinity; Creation of the World; the Angels; Man; Original Sin; the Incarnation; Jesus Christ in the Prophecy, on Earth, in Glory; the work of Jesus Christ; Grace; Merit; Essence and Existence of the Sacraments; Effects and Efficacy of the Sacraments: Indulgences; Virtue; Last Four Things.

102. Apologetics. Junior Year. One and One-half Hours a Week.

Religion, Revelation, Function of Reason in matters of Faith.

Historical value of the Sacred Scriptures. The Pentateuch; the Pentateuch and Science—Geology, Astronomy, Biology, Paleontology. The Bible and modern discoveries in Egypt, Assyria, and Chaldea. Historical value of the Gospels.

Demonstration of the Divinity of the Christian religion. Miracles and Prophecies, Phenomenon of Hypnotism. Ten proofs of the Divinity of the mission of Jesus Christ and His work, the establishment of the Christian Religion. Christianity and Buddhism, Christian Science and Faith Cure. Truth of the Catholic Religion. (1) The Roman Catholic Church possesses the four positive marks of the true Church. Protestantism: The Oriental Schismatic Church. Preroga-

tives conferred by Jesus Christ upon the Church. (2) Accusations brought against the Church. Intolerance; the Vicious Circle; the Inquisition; Gallileo; Massacres of St. Bartholomew; Crusades; Wars of Religion; Revocation of the Edict of Nantes; Temporal Power of the Popes; Authority of the Popes in the Middle Ages; Bad Popes; the Church and Civilization.

103. Rational Theology. Senior Year. One and One-half Hours a Week.

1. Definition and scope. Relation to Dogmatic Theology. The Existence of God. Necessity of demonstrating the existence of God. Demonstration; arguments from motion, contingency, causality, axiomatic truths, duty, moral sanctions, relativity, design; ontological argument. Atheism: Idealistic Atheism, Materialistic Atheism, Practical Atheism, Religious and Moral Consequences of Atheism.

2. Nature and Attributes of God: Manner of Determining the Attributes of God; the Essence of God, and His metaphysical attributes, simplicity, perfection; idea of the infinite; immutability, eternity, unity, omnipresence. Moral attributes of God or the divine personality; God's knowledge; divine knowledge and human knowledge; divine knowledge and human liberty; divine will. Pantheism among the ancients; in the Middle Ages. Modern Pantheists, Spinoza's theory of substance, Fichte, Shelling, Hegel, Anthropomorphism.

3. Creation and Evolution: Creation according to St. Thomas; evolution according to the Fathers; evolution and the Bible.

104. Logic. Senior Year. First Term. Two Hours a Week.

General Introduction; Object of Logic; Divisions of Logic; Plan of Logic.

Formal Logic: On Concepts and Terms; The Proposition; The Syllogism.

Applied Logic or Methodology: On Method in General; Demonstration; Mathematical Demonstration; Method of the Physical Sciences; Method of the Natural Sciences; Method of the Moral Sciences; Errors and Sophisms; Truth and Science; The Principal Scientific Hypotheses.

105. Psychology. Senior Year. Second Term. Two Hours a Week.

Object of Psychology: The Facts of Consciousness; The Faculties of the Soul; The Soul; Method of Experimental Psychology.

Treatise on Sensibility: Sense Perception; Consciousness of Sensations; Pleasure and Pain; The Mental Image; The Memory; Associations of Ideas; Instinct; Appetency and Passion; The Motor Faculty.

Treatise on the Intellect: Attention; Abstraction; Generalization; Conception; Judgment; Reasoning; First Principles.

Treatise on the Will: Nature of the Will; Moral Liberty; Determinism.

106. Economics. Senior Year. One Term. One Hour a Week.

Essential elements of the abstract theory of Economics; applications, exemplifications of the theory; money, banking, transportation, international trade; monopoly; legal aspects of specifications and contracts.

110. English. General Composition. Freshman Year. Two Terms. One Hour a Week.

The object of this course in General Composition is to enable the student to acquire clearness and precision in written discourse. Instruction is given in Exposition, Narration, Argument, and Description, and is carried on by means of lectures and frequent conferences in which students receive individual criticism of their themes. In addition several lengthy essays are required, these to be based on the work done in the various departments.

Reading Course: As direct acquaintance with literary masterpieces makes for culture, a list of titles of some 12 standard English authors is given to each student at the beginning of the year. No study or analysis is attempted, the object being to lead the students to appreciate the charm of the best literature and to form the habit of reading good books.

111. Public Speaking. Freshman Year. Two Terms. One Hour a Week.

The course covers the principles of oratory and of the several forms of public speaking. In the second term, special emphasis is laid on the application of these principles by embodying them in oral reviews and criticisms based on editorials, articles in scientific periodicals, etc. A study is made of parliamentary rules that govern public meetings, the duties of toastmaster, and chairman, and all manner of extemporaneous speaking. Frequent debates on economic, political and social questions are held.

112. Advanced Composition. Sophomore Year. Two Terms. One Hour a Week.

Instruction is given by lectures and personal conferences. The program is outlined in the direction of the demands made upon the student when he takes up the work of his profession. Written work consists of themes, synthetic and analytic outlines, and synopses; reports upon projected engineering enterprises or upon those already undertaken; exposition of mechanical and chemical processes, and description of new inventions or discoveries; debates on scientific, political and other subjects. As in the Freshman year, several scientific essays will be required as an integral part of the student's work.

113. Reading Course. Sophomore Year. Two Terms. One Hour a Week.

At the beginning of both terms, each student is given a list of 12 standard American authors, due consideration being given to the more prominent present-day masters of prose and verse.

120. French. Freshman Year. First Term. Three Hours a Week.

Elementary Grammar, Pronunciation, written exercises. Based on Syms' First Year French.

121. French. Second Term. Three Hours a Week.

Continuation of work done during the First Semester; reading of easy French short stories; study of easy memory selections; conversation.

Based on Syms' Second Year French.

Collateral Reading: Fables Choisies de La Fontaine. Les Plus Jolis Contes des Fées (Lazare).

122. French. Sophomore Year. First Term. Three Hours a Week.

Advanced Grammar; written exercises; conversation; continuation of reading and memory selections of the first year.

Based on Syms' Third Year in French.

Collateral Reading: Aldrich and Foster's French Reader. Fleurs de France. Contes de Daudet.

123. French. Second Term. Three Hours a Week.

Continuation of the work of the preceding semester.

Syms' Third Year in French is completed; a general review of French Grammar is made and exercises in French Composition are made weekly.

Collateral Reading: Choix de Contes Contemporains. Contes Choisis de J. Lemaitre. Contes Choisis de Réné Bazin. Plays selected from Labiche and Legouve.

125. Scientific German. Freshman Year. Two Terms. Two Hours a Week.

The course presupposes the ability to read easy narrative prose at sight. The object of the instruction is to prepare the student to make practical use of scientific treatises and periodicals for the purpose of investigation. Translations of scientific articles in German publications are made a feature of this course.

130. Spanish. Junior Year. Two Terms. Two Hours a Week.

Garner, Spanish Grammar. Course in elementary Spanish. Stress laid on pronunciation and conversation.

Translation of easy tales from Trueba; select fables of Samaniego.

150. Trigonometry. Freshman Year. First Term. Five Hours a Week.

Trigonometric Functions; Variations of Trigonometric Functions; Functions of the Sum and Difference of Arcs; Functions of Multiple Arcs; Inverse Functions; Solution of Triangles; Application of Trigonometry to the Solution of Quadratic Equations; Moivre's Theorem; Trigonometric Equations and Identities; Trigonometric Series; Miscellaneous Problems.

151. Higher Algebra. Freshman Year. First Term. Five Hours a Week.

Theory of Quadratic Equations; Theory of Exponents; Radicals; Theory of Numbers. Imaginary Quantities; Complex Numbers; Mathematical Induction; Permutations and Combinations; Determinants, Convergency, and Summation of Series; Binomial Theorem; Theory of Equations; Sturm's Theorem; Horner's Method of Solving Numerical Equations.

152. Analytic Geometry. Freshman Year. Second Term. Five Hours a Week.

Analytic Geometry of Two and Three Dimensions; Various Systems of Coördinates; Loci Problems; Study of the Line;

the Circle; the Parabola; the Ellipse; the Hyperbola; Tangents; Normals; General Equation of the Second Degree; Higher Plane Curves; Surfaces of Revolution.

153. Differential Calculus. Sophomore Year. First Term. Four Hours a Week.

Theory of Functions; Differentiation of Algebraic and Transcendental Forms; Implicit Functions; Expansion of Functions by Taylor's and Maclaurin's Theorem; Indeterminate Forms; Partial Differentiation; Direction of Curves; Tangents and Normals; Asymptotes; Multiple Points; Study of Curvature; Involutes and Evolutes; Envelopes; Maxima and Minima.

154. Integral Calculus. Sophomore Year. Second Term. Three Hours a Week.

Elementary Forms of Integration; Integration of Rational Fractions; Integration by Parts; Trigonometric Integrals; Integration as a Summation; Application of Integration to Plane Curves; Volumes of Revolution; Double Integration; Moments of Inertia; Surface and Volume of any Solid.

155. Vector Analysis. Sophomore Year. First and Second Terms. One Hour a Week.

Elementary Operations of Vector Analysis. Composition and Decomposition of Vectors; Unit Vector; Vector Equations of the Straight Line and Plane; Centroids; Scalar and Vector Products; Line Integral; Surface Integral; Vector and Scalar Products of Three Vectors; Circle and Sphere; Differentiation of Scalar and Vector Products; Tangents and Normals; Curvature; Equations of Surfaces; Partial Differentiation; The Differential Operator (Del).

156. Differential Equations. Sophomore Year. Second Term. Two Hours a Week.

Formation of a Differential Equation; Equations of the First Order and of the First Degree; Equations of the First Order, but not of the First Degree; Singular Solutions; Linear Equations; Linear Equations with Variable Coefficients; Equations of the Second Order; Equations with more than Two Variables; Partial Differential Equations.

157. Theory of Mechanism. Junior Year. First and Second Terms. One Hour a Week.

The geometry of machinery, showing the laws which govern the velocities of the moving parts and the correct forms for gear-teeth, cams, and link motions.

158. Thermodynamics. Junior Year. Second Term. Two Hours a Week.

The principle of the Conservation of Energy. The general laws of thermodynamics as applied to perfect gases, superheated vapors, etc.; isothermal and adiabatic expansion. Carnot's Principle; Application of the principle especially in connection with the study of the steam engine.

160. Theoretical Mechanics. Junior Year. First and Second Terms. Five Hours a Week.

Kinematics: Linear, Plane, Spherical, Screw Motions; Velocity; Acceleration; Angular Acceleration.

Dynamics: Mass; Moments of Mass; Centroids; Momentum; Force; Energy.

Statics: Concurrent Forces; Parallel Forces; Theory of Couples; Principles of Virtual Work.

Kinetics: Impulses; Impact of Homogeneous Spheres; Rectiliniar, Free Curvilinear and Constrained Motions of a Particle; Kinetics of Rigid Bodies.

161. Applied Mechanics and Strength of Materials. Junior Year. First and Second Terms. Three Hours a Week.

The Physical Qualities of Materials of Construction; the Study of Stresses and Strains in the same. Safe Limit of Elasticity; Modulus of Elasticity; Experiments in Tension; Compression, Shearing, Torsion; Special Problems in Flexure of Beams.

Construction and Strength of Arches; Graphical Method for Arch-Ribs of Hinged Ends and of Fixed Ends; Stress Diagrams; Temperature Stresses; Braced Arches.

162. Hydraulics. Senior Year. Second Term. Two Hours a Week.

Fluid Pressure in Tanks and Reservoirs; Earth Pressure and Retaining Walls; Steady Flow of Liquids through Pipes and Orifices; Coefficient of Friction of Water in Pipes; Loss of Head due to Elbows, Bends, Valve-Gates, and Throttle-Valves.

163. Surveying. Sophomore Year. First Term. Five Hours a Week.

Chain Surveying: Measurements of Distances; Use of Chain and Tape; Stadia Wires; Area or Contents of Ground.

Compass Surveying: Surveyor's Compass; Correction of Local Attraction; Field Notes; Variation of Needle in Declination; Area or Contents of Ground.

Transit Surveying: Study of the Transit; Measurements of Angles; Ranging of Lines; Farm Surveying; Laying out and Dividing of Land.

Leveling: Study of the Y Level; Use of Leveling Rod; Section Leveling; Cross-section Leveling; Computation of Earthwork.

164. Surveying. Sophomore Year. Second Term. Five Hours a Week.

Topographical Surveying: Definitions and Principles; Shading and Delineation; Topographical Signs; Mapping; Contour Lines.

Railway Curves: Definition and Principles; Location of Curves; Laying off Ordinates; Reversed and Compound Curves.

165. Astronomy. Three Hours a Week.

The Earth; The Observatory; Refraction; The Sun; The Solar System-Parallax; Determination of the First Point of Aries; Precession; Nutation and Aberration; Navigation; Fixed Stars; Spectrum Analysis; Masses of Heavenly Bodies.

170. Descriptive Geometry. Freshman Year. Second Term. Eight Hours a Week.

Elementary Principles; Notation; Problems Relating to the Point, Line and Plane; Principles and Problems Relating to the Cylinder, Cone and Double Curved Surface of Revolution; Intersection of Planes and Solids; Development of Solids; Intersection of Solids; Miscellaneous Problems.

171. Mechanical Drawing. Freshman Year. First Term. Eight Hours a Week.

Use of Drawing Instruments; Lettering; Conic Sections; Projection Drawing; Intersection of Planes and Solids; Intersection of Solids.

Drawing of the second term is taken in connection with the course of Descriptive Geometry outlined above.

172. Machine Drawing. Sophomore Year. First and Second Terms. Eight Hours a Week.

This course is intended to give general information on simple machine details, such as bolts, screws, springs, keys, flanges, pipe fittings, valves, etc. Great attention is given to the reading of blueprints.

173. Machine Design. Junior Year. First and Second Terms. Three Hours a Week.

This course is intimately connected with the several departments of engineering. Free-hand sketchings from machine parts and models are made, and the transferring of the sketchings into Machine Drawings is required. It is the aim of the course to teach the student to make complete sets of working and assembly drawings for special machines, by applying all the principles acquired in the class room and the shops.

180. Physics. Sophomore Year. First and Second Terms. Three Hours a Week.

The aim of this course is to furnish all the knowledge of physics required in the technical courses of the Engineering Department. The subjects considered are general mechanics, molecular mechanics, wave motion, electricity, magnetism, sound and optics. These topics are discussed both mathematically and experimentally, while the historical and descriptive aspects are not overlooked. The physical principles and the applications thereof are very fully illustrated by an extensive series of lecture-table demonstrations and lantern projections.

181. Physical Laboratory. Sophomore Year. First and Second Terms. Six Hours a Week.

The work in the Physical Laboratory is from the beginning exclusively quantitative. It is so mapped out as to teach the student to make accurate measurements, to impart dexterity in the manipulation of instruments, and to give practice in properly noting, interpreting, and reducing experimental data. The student at the same time gets a clear understanding of the principles of Physics that he has learned in the lecture-room.

The following questions are treated in the laboratory; Uniformly accelerated motion; force proportional to rate of change of momentum; composition and resolution of forces; the principle of work; energy and efficiency; the laws of

impact; elastic impact; coefficient of restitution; elasticity; Hook's law; Young's modulus; the coefficient of rigidity; moment of inertia; simple harmonic motion; determination of "g"; the law of centripetal force; Boyle's law; density of air; the measurement of temperature; law of Avogadro; densities of gases and vapors; the pressure-temperature curve of a saturated vapor; hygrometry; Archimedes' principle; capillarity; calorimetry; expansion.

Magnetic and electric fields of force; determination of the strengths of magnetic fields and magnetic poles; measurement of electric currents; measurement of potential difference; measurement of resistance; temperature coefficient of resistance; specific resistance; galvanometer constant of a moving-coil galvanometer; absolute measurement of capacity; comparison of capacities, determination of dielectric constants, and the ratio of the electrostatic and electro-magnetic units; electromotive force and internal resistance; comparison of electromotive forces; electro-magnetic induction; constants of the earth's magnetic field; self-induction; magnetic induction in iron; electrolytic conduction; velocity of sound in air; musical properties of air chambers; longitudinal vibrations of rods; waves in strings; diffraction of sound and light waves; diffraction grating; refraction of light; total reflection; dispersion and spectra; polarized light; radio-activity.

185. Electrical Measurements and Measuring Instruments. Junior and Senior Years. First and Second Terms. Three Hours a Week.

The aim of this course is to set forth the theory of electrical measurements, the theory and mechanical construction of the instruments used ,the degree of precision attainable, and the possible sources of error. The course likewise includes a systematic round of laboratory exercises in electricity and magnetism. The principal questions handled are the following: The determination of resistances by the various methods, insulation tests, comparisons of electromotive forces by the method of compensation, use of the potentiometer, the various forms of voltameters, the calibration and correction of voltmeters, ammeters, and wattmeters; storage battery tests, use of the electrometer, measuring and comparison of capacities and coefficients of self-induction, mutual induction, laws of the electromagnet, measurement of induction, use of the Bismuth spiral and magnetic balance, the determination of the permeability of iron, hysteresis tests, etc.

Besides these electro-magnetic measurements, there is likewise a series of photometric measurements on incandescent and arc lamps with the Bunsen, Lummer-Brodhun, Martens, Weber, Polarisation and Integrating photometers.

The students are required to hand in written reports of their work in the laboratory, accompanied with standard diagrams of connections, and graphs showing the results of their tests.

186. Dynamo Electric Machinery. Junior Year. First and Second Terms. Three Hours a Week.

This course embraces a study of Ohm's law and Kirchhoff's laws and various applications thereof; a study of electro-magnets and the magnetic properties of iron; the theory, construction, and characteristics of series, shunt and compound generators, and the theory of commutation; parallel operation, speed control of motors, as also a discussion of the principles that underlie generator and motor testing.

187. Theory of Alternating Currents and Alternating Current Machinery. Senior Year. First and Second Terms. Three Hours a Week.

This course comprises a study of the mathematical theory of alternating current phenomena. In the developments both vectorial and analytical methods are used. The general notions on harmonic functions are applied to alternating current circuits. A detailed study is made of circuits containing impedances and capacities in series and parallel; of the measurements of power in single phase and polyphase circuits.

In this course likewise a study is made of the construction, principles of operation and behavior of single and poplyphase generators and motors, the transformer, induction motor, the synchronous motor and the rotary converter.

188. Electrical Laboratory. Junior Year. First and Second Terms. Five Hours a Week.

The work in the electrical laboratory includes the taking up of the characteristic curves of direct current machines to study their performance; the determination of the armature reaction; the making of efficiency, regulation, and heat tests; the determination of the torque of motors; a study of the various methods of operating generators and motors and their auxiliary control apparatus.

189. Electrical Laboratory. Senior Year. First and Second Terms. Five Hours a Week.

The work includes the study of circuits possessing inductance and capacity, the study of alternators, synchronous motors, rotary converters, transformers, frequency changers, and meters; the use of the oscillograph and Braun's tube; the

analytical presentation of the curves found experimentally. To this is added a study of high voltage phenomena and the determination of the dielectric strength of insulating materials.

190. Electric Distribution and Control. Senior Year. Second Term. Three Hours a Week.

This course embraces the design and calculation of circuits for the distribution of power by direct currents; a study of distribution-systems, regulating apparatus, and storage batteries. Alternating current transmission and distribution is next considered, particular attention being given to high tension transmission, including the installation and operation of high tension systems.

191. Electrical Design. Senior Year. First and Second Terms. Five Hours a Week.

In this course every student is required to complete an original design of each of the following types of electro-magnetic machinery: a lifting electro-magnet, a magnetic clutch or system of electrical manipulation; a direct current generator or motor; an alternating current generator or synchronous motor; an induction motor; a transformer.

192. Excursions. Senior Year. Second Term.

Visits of inspection are made to various power and industrial plants in and about Dayton. Occasionally a more extended trip is made to some large industrial center. Formal reports, on such inspection trips, are required.

193. Seminar. Senior Year. First and Second Terms. One Hour a Week.

Several times a month the students and department instructors meet for the purpose of considering the more important articles appearing in the current electrical and technical journals. Abstracts of articles are prepared and read by the students. The reading is followed by a general discussion. At the meetings, likewise, occasional lectures are given by engineers in active practice upon subjects with which they are especially familiar.

194. Electrical Machine Construction. Junior Year. Practice Term.

In this course the students are given practice in winding fields and armatures, assembling the parts of motors, generators and transformers, and making a running test.

201. Qualitative Chemistry (Lecture Course). Freshman Year. First Term. Two Hours a Week.

A lecture course, fully illustrated, in which the metallic elements are studied from the standpoint of their analytical classification, going into details regarding their reactions with the typical reagents. Acid analysis is also taken up and the problems of qualitative analysis are considered in their various phases.

202. Qualitative Analysis (Laboratory Course). Freshman Year. First Term. Four Hours a Week.

The student is required to separate and to identify the various metallic and non-metallic elements, inorganic and common organic acids contained in materials of graded complexity.

203. Qualitative Analysis (Laboratory Course). Freshman Year. Second Term. Four Hours a Week.

The work under 202 is continued and completed, with special reference to full qualitative identification of complex minerals and alloys.

204. Quantitative Analysis. Sophomore Year. First Term. Seven Hours a Week.

This course provides a training in the accepted methods of quantitative analysis and follows courses 202 and 203. The work includes the gravimetric estimation of such metals as aluminum, copper, calcium, the halogens, sulphur and nitrogen, and the components of common alloys.

205. Quantitative Analysis. Sophomore Year. Second Term. Seven Hours a Week.

The work assigned is a continuation of the course 204 and introduces the student into the methods of calibration of apparatus, acidimetry, alkalimetry, oxidation, reduction and precipitation methods. Application of these are made as the student advances in the stages of his work.

206. Electro-Chemistry. Junior Year. Second Term. Four Weeks. Five Hours a Week.

A laboratory course designed to acquaint the student with the quantitative determination of metals electrolytically, utilizing the stationary and rotating electrodes and other modifications of modern practice.

207. Technical Analysis. Junior Year. Seventeen Weeks. Six Hours a Week.

Special problems of current industrial practice are attacked. In this connection, the analysis of iron, steel, coal, water and gas are taken up.

208. Organic Chemistry. Junior Year. Thirty-four Weeks. Three Hours a Week.

Part I.—A course of lectures and recitations in which the general principles and theories of Organic Chemistry are treated with special reference to the Aliphatic Series. Attention is constantly drawn to such specific compounds which are of technical, medicinal, or theoretical importance.

Part II.—A lecture and recitation course, in which the Benzene Series is treated. As in Part I., the scientific development of the subject is always accompanied by demonstrations.

209. Organic Practice. Senior Year. Two Terms. Twelve Hours a Week.

The student is made familiar with the operations and apparatus involved in organic work, such as fractional distillation, extraction, crystallization steam distillation, determination of melting and boiling points, and with various methods of preparation (etherification, saponification, nitration, sulphonation, diazotization, etc.). He prepares a prescribed number of typical organic products of synthetic and commercial interest. Accompanying this synthetic feature, the analytic methods (qualitative and quantitative) peculiar to organic chemistry are taken up and thoroughly mastered.

210. Chemical Technology. Junior Year. Second Term. Senior Year. First Term. Two Hours a Week.

This course consists of lectures and recitations upon the more important technical chemical processes. Much attention is given to the general operations common to many industries and to the details of various types of apparatus used for carrying on the processes of crushing, lixiviation, filtration, distillation, etc. Charts, models, and a large collection of samples are employed as aids.

211. Physical Chemistry. Senior Year. Two Hours a Week.

In this course the fundamental laws and theories of chemistry are studied from the standpoint of their historical development, together with the discussion of the principles and applications of thermo-chemistry. Chemical dynamics and statics and the modern theories of solution are discussed, reference being continually made to original literature.

Laboratory work includes vapor density and molecular weight determinations according to the classical methods. etc.

212. Seminar Students of the Junior and Senior Years meet in informal conference with the instructors and discuss prepared papers and reviews of selected topics from current chemical literature.

213. Special Lectures by practicing industrial chemists and engineers will be arranged for to be given at stated periods.

214. Inspection Visits to local and neighboring establishments will help to familiarize the students with the actualities of chemical industry.

220. Mineralogy. Sophomore Year. First Term. Two Hours a Week.

A course of lectures and recitations is given on general and special mineralogy. The crystallographic, physical and chemical properties of the more important minerals are dwelt upon at length. Laboratory work, in which crystallographic models and natural crystals are put into the hands of the students ,supplements the lectures. Other minerals are given for identification, thus bringing him into contact with a wide range of material. The College museum mineral collection is always open to students.

221. Geology. Sophomore Year. Second Term. Two Hours a Week.

The principles of dynamic, structural, physiographical and historical geology are presented in a series of lectures and recitations, supplemented by specimens furnished by the College Museum.

230. Carpentry and Wood-Turning.

The object of the work is a thorough training in the adjustment, use, and sharpening of the ordinary wood-working tools. The exercises in carpentry include sawing, planing, chiseling, including chamfering, grooving ,and plain moulding work; framing, including tenoning, splicing, mortising, and fitting braces; use of moulding planes; nailing, dove-tailing; gluing; and the proper use of sandpaper.

The exercises in Wood-Turning include systematic instruction in the use of the wood lathe in center and chuck turning and careful training in the use of turning tools, such as gouges, turning chisels, nosing tools, right and left side tools, parting tool, calipers and dividers.

231. Patternmaking.

Under this subject the student is taught the construction from working drawings of patterns for some machine involving the operations of laying up, gluing, turning, carving, and making core boxes.

232. Forging.

This course includes instruction in the building and care of fires, heating, drawing, forming, bending and twisting, upsetting while bending, upsetting for square corners, punching, bolt-making, chamfering, welding, the making and use of heading tools, chain making, the making and fitting of braces, the construction of hooks and ring bolts, riveting and the use of threading tools.

233. Foundry Work.

The exercises include instruction in tempering the sand and making green moulds for small work. This is followed by exercises in core-making and an explanation of loam work. Machine, floor, and sweep moulding are briefly discussed. Students are likewise taught to attend the supola furnace.

234. Machine Shop Practice.

The students are given instruction and practice in chipping chamfers, flat, concave and convex surfaces, keyways and "chipping to shoulder." This is followed by exercises in filing, beginning with the names and classification of files, a discussion of the "cut" tooth angles, and uses of each form, and methods of holding and operating. The instruction covers methods of holding and "laying out" work, cross filing, draw filing, free-hand filing, production of flat surfaces, surfaces at right angles, parallel surfaces, chamfering, filing to template, use of the hack-saw, fitting, including parallel, drive, and slide fits, finishing and polishing.

Chipping and filing are followed by metal turning, including lathe work, drilling, planing, and milling.

300. Stereotomy. Sophomore Year. Second Term. Three Hours a Week.

In this course the student is taught to apply the principles of Descriptive Geometry to the making of drawings for masonry structures such as piers, culverts, intersecting arches and walls, abutments, etc.

301. Stresses. Junior Year. First Tterm. Six Hours a Week.

Under this heading is included a study of the fundamental principles governing the distribution of stresses in the diffe-

ent members of framed structures subjected to known external loads; the investigation of roof and bridge trusses for the purpose of determining their probable load, and finally the determination of the maximum stress and distortion in the different members due to such loads.

302. Graphic Statics. Junior Year. Second Term. Five Hours a Week.

This course deals with the graphical method of determining stresses in structures and the accompanying deformation.

303. Railroad Engineering. Junior Year. First and Second Terms. Five Hours a Week.

This course includes class room recitations, field practice and drawing room work. The class room work covers a description of the various methods of railroad location, the mathematics of curves and the computation of earthwork. The field work consists of a complete railroad survey. In the drawing room the student prepares the necessary maps and profiles of the location survey, earthwork diagrams, mass diagrams, and switch layouts.

304. Railroad Engineering. Senior Year. First Term, One Hour a Week. Second Term, Three Hours a Week.

This course includes lecture and drawing room work in organization, construction and maintenance, methods of handling earth and rock, tunneling, track laying, design of yards, street railways, etc.

305. Electrical Engineering Laboratory. Junior Year. First and Second Terms. Three Hours a Week.

A course of laboratory exercises designed to familiarize the student with the elements of technical measurements and with the characteristics and operation of the ordinary types of electrical machinery.

306. Hydraulics. Junior Year. Second Term. Five Hours a Week.

Deals with the fundamental principles of hydrostatics and hydrodynamics together with some of their applications to general hydraulics. Some of the topics discussed are: fluids and their properties; pressure, conditions of equilibrium; fluids in motion; discharge from orifices; flow over weirs and through pipes; flow of water in open channels; energy and reaction of jets; pressure of water on curved vanes, and the essential principles of hydraulic motors.

307. Practical Astronomy and Geodesy. Junior Year... Second Term. Four Hours a Week.

In this course are treated the figure of the earth, methods of conducting a geodetic survey, including the measurement of base lines, triangulation, precise leveling, and methods of determining azimuth, latitude, longitude and time.

308. Prime Movers. Senior Year. First Term, Two Hours a Week. Second Term, Four Hours a Week.

Includes a descriptive and critical treatment of power-plant equipment and operation.

309. Masonry. Senior Year. First Term. Five Hours a Week.

This course includes a study of foundations in different soils, description of various classes of masonry and their uses in arches, dams, footings, buildings, bridge abutments and piers, retaining walls and culverts. Considerable prominence is given to reinforced concrete. Much of the time is devoted to the designing and preparation of plans for various masonry structures.

310. Theory of Structures: Bridges and Similar Structures. Senior Year. First and Second Terms. Eight Hours a Week.

Discusses the methods of making beams, columns, and ties from the structural materials; the combination of these elements to form buildings, bridges, viaducts and cranes. In the drawing room the student prepares strain sheets, general and detail plans, bills of materials and estimates. During the second term a study is made of standpipes, high office buildings, arches, cantilevers, continuous suspension and movable bridges, and the stresses to which they are subjected.

311. Hydraulic and Sanitary Engineering. Senior Year. First Term, One Hour a Week. Second Term, Four Hours a Week.

This course deals with the practical application of theoretical mechanics to water, sewerage, water power, and irrigation. Under the heading of sanitary engineering are studied the various problems involved in street cleaning, garbage collection and disposal, and other topics relating to public health.

312. Highway Engineering. Senior Year. Second Term. One Hour a Week.

This course covers the location, construction and maintenance of highways, together with the construction and maintenance of street pavements.

313. Mechanical Laboratory. Junior Year, First Term, Four Hours a Week. Senior Year, First Term, Six Hours a Week; Second Term, Seven Hours a Week.

Use and calibration of important measuring instruments. Tests on elements of machines and tests involving pressure and motion of gases and liquids. Investigation of complete machines and appliances involving pressure and flow of water, gas, air and steam. Combustion, heat transmission and the mechanical treatment of steel.

330. Steam Engineering. Junior Year. First Term. Three Hours a Week.

The subject begins with the study of the Zeuner and Bilgram diagrams, with the application of these diagrams to simple slide valves, and gradually embraces the analysis and synthesis of flat, piston, unbalanced, single-ported, and multi-ported valves, with fixed, shifting and swinging eccentrics; the study of theoretical indicator cards for simple and compound engines, valve ellipse, valve and piston velocity diagrams, link motions, radial gears, Corliss and other trip gears. Moreover, the work covers the analysis of steam distribution in various types of engines, embracing a thorough discussion of the force involved in the transmission of power from piston to shaft, with a view of determining the weight of fly-wheel for a desired steadiness of motion; fly-wheel design for various purposes; the theory and practice in the design and operation of Corliss, throttling and shaft governors, together with a brief discussion of other methods of governing.

331. Engine and Boiler Design. Junior Year. First Term. Six Hours a Week.

The work includes the complete analysis and design in detail of a high speed center crank engine with a swinging eccentric, a similar design of the valve gear and cylinder for a single eccentric Corliss engine, and the details of the Stephenson link motion as applied to a passenger locomotive; the design of a Corliss engine; the graphical analysis of the forces transmitted from piston to crank shaft; the design of a shaft governor; the design of a return tubular boiling with setting.

332. Metallurgy of Iron. Junior Year. First Term. One Hour a Week.

The theory and practice of iron and steel making; discussing ores, fuels, slags, chemical reactions, and the technical and practical conditions involved in the manufacture of pig iron, wrought iron, malleable iron and various classes of steel.

333. Steam Power Plants. Junior Year. Second Term. Four Hours a Week.

A critical study of steam boilers and furnaces, boiler room equipment, steam engines, steam turbines and condensers. Choice of proper power plant to meet required conditions.

334. Gas Power Plants. Senior Year. First Term. Two Hours a Week.

A critical study of gas producers, gas engines, oil engines and accessory equipment.

335. Dynamics of Machines. Senior Year. First Term. Two Hours a Week.

A study of the stresses set up by impact and inertia, as also of vibration and critical speeds.

336. Power Machinery. Senior Year. First Term, Eleven Hours a Week. Second Term, Eleven Hours a Week.

The methods of designing the parts of engines, boilers, turbines and pumps with regard to strength, rigidity, efficiency, wear and cheapness of production and operation. During the second term the student is taught the design and analysis of complete machines and appliances such as engines, ammonia compressors, boilers, pumps, turbines, etc.

337. Hydraulic Motors. Senior Year. Second Term. Two Hours a Week.

A study of impulse wheels and reaction turbines with reference to their proper construction, regulation and testing, and to the various sources of losses in their operation.

338. Rapid Production Machinery. Senior Year. Second Term. One Hour a Week.

A study of lathes, automatic screw machines, milling machines, planers, drills and precision grinders, as also a study of the most economical speeds at which to run tools under varying conditions of material, cut and feed.

339. Pumps and Compressors. Senior Year. Second Term. Two Hours a Week.

In this course are treated the theory, design and construction of reciprocating and centrifugal pumps, blowers and compressors.

340. Heating and Ventilating. Senior Year. Second Term. One Hour a Week.

A study of the various methods of heating and ventilating with due regard to their hygienic value... Investigation of the heat losses in buildings, as also the methods of utilizing the waste heat from power plants for heating purposes.

HIGH SCHOOL AND BUSINESS DEPARTMENTS

Faculty

Rev. Bernard F. O'Reilly, S. M.
President

Rev. Joseph A. Tetzlaff, S. M.
Vice-President

Bro. Louis Reimbold, S. M.
Fourth Year High School
Physics, Geometry, German

Rev. Francis Kunnecke, S. M.
Latin, English, History

Bro. William Beck, S. M.
Physics, Geometry

Bro. George Meinzinger, S. M.
Third Year A

Bro. Frank May, S. M.
Third Year B

Bro. William Wohlleben, S. M.
Chemistry

Bro. Matthias Haas, S. M.
Chemistry, Geometry

Bro. Lawrence Drufner, S. M.
Second Business

Bro. Bernard Leimkuhler, S. M.
First Business

Bro. Joseph Quick, S. M.
Second Year A

Bro. John Gunzelman, S. M.
Second Year B

Bro. William Schumacher, S. M.
First Year A

Bro. Michael Grandy, S. M.
First Year B

Bro. Charles Preisinger, S. M.
First Year C

Bro. Thomas Mooney, S. M.
Bro. Michael Donnelly, S. M.
Bro. John Gareis, S. M.
Bro. George Schneider, S. M.
Religion

Emil Hocke
Physical Director

HIGH SCHOOL DEPARTMENT

FIRST YEAR

First Term	Periods	Second Term	Periods
Religion	3	Religion	3
English	5	English	5
English Literature	3	English Literature	3
German	5	German	5
Civil Government	2	*Civil Government	2
Algebra	5	Algebra	5
Physical Geography	4	Physiology	4
Drawing, Penmanship	2	Drawing, Penmanship	2

SECOND YEAR

First Term	Periods	Second Term	Periods
Religion	3	Religion	3
Rhetoric, Classics	4	Rhetoric, Classics	4
History	2	History	2
German	5	German	5
Latin	7	Latin	7
Algebra	4	Algebra	4
Zoology	4	Botany	4

THIRD YEAR

First Term	Periods	Second Term	Periods
Religion	3	Religion	3
Rhetoric, Classics	4	Rhetoric, Classics	4
Latin	5	Latin	5
German	5	German	5
History	1	History	1
Geometry	5	Geometry	5
Chemistry	4	Chemistry	4
Laboratory Practice	2	Laboratory Practice	2

FOURTH YEAR

First Term	Periods	Second Term	Periods
Religion	3	Religion	3
English	4	English	4
Latin	5	Latin	5
German	5	German	5
History	2	History	2
Geometry	4	Geometry	4
Physics	4	Physics	4
Physical Laboratory	2	Physical Laboratory	2

* Optional, Irish History, 2 periods.

N. B.—Students that attain a satisfactory average in Physical Training are awarded one-fourth credit each year.

Subjects of Instruction

CHRISTIAN DOCTRINE

I Year High School. Deharbe's Large Catechism. Two Periods a Week.

End of Man; Faith, its Necessity and Qualities; the Twelve Articles of the Creed; the Commandments; Love of God; Love of Self and Neighbor; the Decalogue.

II Year High School. Deharbe's Large Catechism. Two Periods a Week.

Review of the Commandments of God; Commandments of the Church; Sin; Virtue; Grace; Actual and Sanctifying Grace; the Seven Sacraments; the Holy Sacrifice of the Mass; Indulgences; the Sacramentals; Prayer; the Lord's Prayer; the Angelical Salutation; Daily Prayers; the Rosary; Manner of Serving at Mass. Ecclesiastical Year—the Seasons and Festivals.

III Year High School and I Year Business. Deharbe's Full Catechism. Two Periods a Week.

The Commandments; the Love of God; Christian Self-Love, and Love of Our Neighbor; the Decalogue; Veneration and Invocation of the Saints; the Commandments of the Church; Sin; Virtue and Christian Perfection; Grace; Sacraments; the Real Presence; the Mass; Indulgences; Sacramentals; Prayer; Religious Practices and Ceremonies.

IV Year High School and II Year Business. Deharbe's Full Catechism. Two Periods a Week.

End of man; Faith; God; His Attributes and Perfections; the Trinity; the Creation and Government of the World; the Angels; Our First Parents and Their Fall; Jesus Christ; the Messias, True God and True Man; the Incarnation; Divine Maternity of the Blessed Virgin; the Passion, Death, and Resurrection of Jesus Christ; the Judgment; the Holy Ghost; the Church and Its Marks; Papal Infallibility; the Four Last Things.

Detailed study of the Mass; Sacred Vessels; Vestments, etc.; Sacramentals; Festivals; the Divine Office; Vespers, Compline, Benediction of the Blessed Sacrament; the Liturgical Year.

CHURCH HISTORY

By Rev. B. J. Spalding.

I Year High School. Two Periods a Week.

First Epoch. From Foundation of the Church to Reign of Constantine (A. D. 3-312); Early Church; the Ten Persecutions; the Apologists; Heresies; Progress of the Church.

SECOND EPOCH. From Conversion of Constantine to Fall of the Western Empire (A. D. 312-475). Constantine the Great; Julian the Apostate; Invasion of Barbarians; Heresies—Arianism, Nestorianism; Doctors; Saints and Councils; Monasticism in the East and West.

II Year High School. Two Periods a Week.

THIRD EPOCH. From the Downfall of the Western Empire to the Coronation of Charlemagne (475-800). Conversion of Barbarians, Franks, Visigoths, Anglo-Saxons, Lombards, Teutonic Tribes, Mahometans; Heresies in the East—Eutychianism, Monothelitism, Iconoclasts; the Church and Civilization; Popes; Bishops; Monachism; St. Benedict.

FOURTH EPOCH. From the Restoration of the Western Empire to Gregory VII. (800-1073). The Church in the Central and Western Europe; Conversion of Northern and Eastern Nations of Europe; the Greek Schism; Feudalism and Investitures.

FIFTH EPOCH. From Gregory the Great to Boniface VIII. (1073-1294). Palestine Under the Mahometans; the Crusades; Military Orders; Gregory VII.; the Papacy and the Empire; Mendicant Orders; Universities.

III Year High School. Two Periods a Week.

SIXH EPOCH. From Boniface VII. to the Rise of Protestantism (1294-1517). Ecclesiastical Tribunals; the Albigenses; the Inquisitions; the Action of the Temporal Supremacy of the Popes; the Great Schism of the West; Councils; Heresies; Church Architecture; the Arts; Literature and Science.

SEVENTH EPOCH. From the Rise of Protestantism to the Treaty of Westphalia (1517-1648). Martin Luther; Thirty Years' War; Spread of Protestantism; Calvinism; Huguenots; Massacre of St. Bartholomew; John Knox; Mary, Queen of Scots; Henry VIII.; Effect of Protestantism in England; Elizabeth; James I.; Gunpowder Plot; Council of Trent; Religious Orders; Jesuits; Decline of Protestantism; Discoveries; Missions in Africa; India; Japan; China; America.

IV Year High School. Two Periods a Week.

EIGHTH EPOCH. From the Treaty of Westphalia (1684) to the present day. Church and Monarchies; Louis XIV. and the Church; the Church and Spain; the Church and Austria; Infidelity in Europe; the French Revolution; Effort to Annihilate the Church; Napoleon and Pius VII.; Revival of Religion; the Church since the Revolution; the Redemptorists; Missions in Europe; the East, Africa, Oceanica, in South and Central America; the Church in the United States.

ENGLISH

I Year High School. Five Periods a Week.

Grammar: Fundamental English, John P. McNichols, S. J. Practice in composition every week.

Classics:

(*a*) A thorough knowledge of the subject-matter, form, and structure of:

Irving, *Legend of Sleepy Hollow;* Lamb, *Tales from Shakespeare* (2); Hawthorne, *Tanglewood Tales* (2); Dickens, *Christmas Carol* (Scrooge and Marley); Longfellow, *Evangeline;* Goldsmith, *Deserted Village;* Crawford, *Marzio's Crucifix.*

Detailed written work is required.

(*b*) A general knowledge of the substance of six books selected from the following groups:

Group 1. (Two to be selected.) *Life of Henry Clay, Life of Washington, Washington and His Generals, Autobiography of Franklin.* Group 2. (One to be selected.) Cooper, *The Spy;* Dickens, *Christmas Carol.* Group 3. (One to be selected.) Hawthorne, *Tanglewood Tales;* Wm. C. Bryant, *Thanatopsis and Other Poems.* Group 4. (One to be selected.) Lamb, *Tales from Shakespeare;* Irving, *Sketch Book.* Group 5. (One to selected.) Irving, *Alhambra and Conquest of Granada.*

Written work is required.

Literature: Anglo-saxon Period; Norman Period; Age of Chaucer; English; Irish and American Literature.

Text: Murray.

II Year High School. Four Periods a Week.

Rhetoric: Hill's Rhetoric. Weekly practice.

Classics:

(*a*) A thorough knowledge of the subject-matter, form, and structure of:

Longfellod, *Evangeline;* E. A. Poe, *Gold Bug;* Samuel T. Coleridge, *Rime of Ancient Mariner;* William Shakespeare, *Merchant of Venice; Washington's Farewell Address;* Sir Walter Scott, *Lay of the Last Minstrel;* Cardinal Wiseman, *Fabiola.*

Detailed written work is required.

(*b*) A general knowledge of the substance of six books selected from the following group:

Group 1. One of Hawthorne's novels—*House of Seven Gables* suggested. Group 2. Thackeray, *Vanity Fair,* or *The Virginians.* Group 3. Goldsmith, *Vicar of Wakefield.* Group 4. One of Cooper's novels—*Last of the Mohicans, Prairie, The Pioneers,* or *The Spy* suggested. Group 5. Longfellow's *Haiwatha;* Browning s Poems—*Pied Piper* suggested; Cowper—*John Gilpin's Ride* suggested. Group 6. Byron, *Prisoner of Chillon; Mazeppa.*

Written work is required.

Note.—The elements of English Versification are taught in this class.

III Year High School. Three Periods a Week.

Hill's Rhetoric, completed. Weekly practice.

Composition and easy writing.

Classics.

(*a*) A thorough knowledge of the subject-matter and structure of: Bryant, *Thanatopsis and Other Poems;* Webster, *First Bunker Hill Oration;* Byron, *Prisoner of Chillon and Mazeppa;* Shakespeare, *Julius Caesar;* Arnold, *Sohrab and Rustum;* Macaulay. *Essay on Johnson;* Newman, *Callista.*

(*b*) A general knowledge of the substance of six books selected from the following groups: Group 1. Wiseman, *Fabiola;* Crawford, *Marzio's Crucifix.* Group 2. Scott, *Waverly, Ivanhoe, Talisman.* Group 3. One of Webster's Speeches. Group 4. Lamb, one of the Essays of Elia. Group 5. Cooper, *Two Admirals, Prairie, Last of the Mohicans.* Group 6. Whittier, *Snowbound;* Scott, *Lady of the Lake, Lay of the Last Minstrel.*

Written work is required.

IV Year High School. Three Periods a Week.

Weekly prictice in Composition and Essay Writing.

Classics:

(*a*) A thorough knowledge of the subject-matter and structure of: Milton, *Lycidas and Comus;* Addison, *DeCoverly Papers;* Milton, *L'Allegro and Il Penseroso;* Shakespeare, *Macbeth;* Carlyle, *Essay on Burns;* Ruskin, *Sesame and Lilies;* Miles Keon, *Dion and the Sybils.*

Detailed work is required.

(*b*) A general knowledge of the substance of six books selected from the following groups. (Written work is required.) Group 1. Poe's Tales and Poems. Group 2. One of Thackeray's Novels. Group 3. One of Scott's Novels. Group 4. One of Dickens' Novels. Group 5. One of the following: a. Bulwer-Lytton, *Last Days of Pompeii;* b. Jane Porter, *Scottish Chiefs.* Group 6. One of the following: a. Tennyson, *Enoch Arden;* b. Scott, *Lady of the Lake.*

GERMAN

I Year High School. Five Periods a Week.

Dreyspring's Cumulative Method of Learning German. The Alphabet, Indefinite and Definite Articles; Pronouns; Prepositions governing the Dative Cases; Adjectives; Nouns; Declension of Nouns, Pronouns; Conjugation of sein, haben, werden; the Conjugation.

Text: Dreyspring's Cumulative Method to page 115.

Reading: *Bunte Geschichten.* Erna M. Stoltze.

II Year High School. Five Periods a Week.

Intensive study of verb forms. Review of weak declension, strong declension; remaining parts of speech.

Text: Dreyspring's Cumulative Method from page 115 to the end.

Reading: *Grimm's Maerchen.* James Kern.

III Year High School Five Periods a Week.

German Composition and Letter Writing.

Classics. *Selected Poems, Schiller's Lied von der Glocke, Der Taucher.*

IV Year High School. Five Periods a Week.

German Composition.

Classics: *Wilhelm Tell, Jungfrau von Orleans, Hermann und Dorothea.*

LATIN

II Year High School. Seven Periods a Week.

Latin forms, inflections; conjugations; syntax.

Text: *Foundations of Latin.* Bennett.

Reading: *Historia Sacra; Phaedrus.*

III Year High School Five Periods a Week.

Latin Grammar; intensive study oı verb forms and syntax.

Text: Bennett's Latin Grammar.

Classics: *Nepos; Caesar.*

IV Year High School. Five Periods a Week.

Latin Grammar; Latin Composition.

Text: Bennett's Latin Grammar.

Cicero's *Orations Against Catiline;* Virgil, *Books I. and II.*

MATHEMATICS

I Year High School. Algebra. Five Periods a Week.

Algebraic Symbols and Expressions; Fundamental Operations; Factoring; Equations of One and Two Unknown quantities; Involution and Evolution; Quadratic Equation.

Text: *Milne's Elements of Algebra.*

II Year High School. Algebra. Five Periods a Week.

Review of previous course with intensive study of factors; H. C. F. and L. C. M.; Fractions; Radicals; Theory of Exponent; Binomial Theorem; Ratio and Proportion; Quadratic Equation.

Text: *Milne's High School Algebra.*

III Year High School. Geometry. Five Periods a Week.

Plane Geometry. The Line, Polygon, Circle; Proportion; Similar Figures; Areas of Polygons; Area of Circle. I., II., III., IV., and V. Books.

Text: *Wentworth's Plane and Solid Geometry.*

IV Year High School. Geometry. Four Periods a Week.

Solid Geometry. Lines and Planes; Dihedral Angles; Polyhedral Angels; Polyhedrons, Cylinders, and Cones; Spheres; Sur-

faces and Volumes; Problems. VI., VII., and VIII. Books.
Text: *Wentworth's Plane and Solid Geometry.*

SCIENCE

I Year High School. a. Physiography. Four Periods a Week

THE EARTH. A Planet; Movements; Magnetism; Internal Heat; Volcanoes; Earthquakes.

THE LAND. Arrangement of Land Masses; Forms of Land; Relief Forms; Islands.

THE WATER. Properties of Water; Waters on Land; Drainage; Continental Drainage; The Sea; The Oceans; Waves and Tides; Currents of the Sea.

THE ATMOSPHERE. Physical Properties; Climate; Winds; Storms; Moisture of the Air; Hail, Snow, and Glaciers; Electrical and Optical Phenomena.

LIFE. Relations between Plants and Animals; Range of Plants and Animals; Man; Geographical Distribution of Labor.

b. Physiology. Four Periods a Week.

Study of the Cell; Digestion; Foods; The Blood and Its Circulation; Bleeding Wounds and Diseases; Respiration; Ventilation, Heat and Clothing; The Skin and Kidneys; The Nerves and Spinal Cord; The Brain; The Senses; Bones; Muscles.

Text-books: Maury, Physical Geography; Overton, Physiology.

II Year High School. a. Botany. Four Periods a Week.

The Seed and Its Germination; Storage of Food in the Seed; Movements, Development, and Morphology of the Seeding; Roots; Stems; Buds; Leaves; Flowers; Ecology of Flowers; Fruit; Ecology of Fruits.

The Classification of Plants; Types of Cryptograms.

Lectures supplemented by laboratory work.

b. Zoology. Four Periods a Week.

Protozoa; Porifera; Coelenterata; Echinodermata; Vermes; Protozoa Arthropoda; Vertebrata.

Lectures supplemented by laboratory work.

Text-Books: Atkinson, Elements of Botany; Burnet, School Zoölogy.

III Year High School. Chemistry. Six Periods a Week.

a. This is a course of experimental lectures with recitations. on general and descriptive Chemistry. The following topics are treated: Atomic Theory; Theory of Solutions and Ionization; Acids, Bases, Salts, Neutralization; Reversible Reactions and Chemical Equilibrium; Valence; Molecular and Atomic Weights; Chemical Formulas, Equations, and Calculations; Periodic Law; the Elements that enter into the typical chemical compounds; the organization of the Carbon Compounds and a

brief discussion of some of the more common and typical representatives of Organic Chemistry. The instruction is given in such a manner as to bring home to the mind of the student the industrial and economic phases of Chemistry.

b. Laboratory Practice is taken weekly by the individual student and a Laboratory Report of his work is submitted for criticism every week.

c. Chemical Problems bearing on the subjects under discussion are given and solved, one hour per week.

Texts: Morgan and Lyman, "Chemistry, An Elementary Text Book;" Morgan and Lyman, "A Laboratory Manual in Chemistry."

IV Year High School. Physics. Six Periods a Week.

Fundamental Units; Force and Motion; Pressure of Liquids; Pressure of Air; Molecular Motions; Molecular Forces; Thermometry; Work and Mechanical Energy; Work and Heat Energy; Change of State; Magnetism; Electricity; Static and Current Dynamic Electricity; Sound; Light.

Lecture course is accompanied by a laboratory course embracing about thirty-five experiments, illustrating and demonstrating the most important laws of physics.

Text-book: Miliken and Gale's Laboratory Manual.

HISTORY

I Year High School. United States History. Two Periods a Week.

A topical review of the work of previous grades. The Revolutionary War; The Adoption of a New Form of Government; Establishment of the New Government; Growth in Territory and Population; Progress in Education and Literature; Financial Questions; Troubles with Foreign Countries; Slavery; Civil War.

These topics should be made the subjects of composition after due preparation.

Civil Government. Two Periods a Week.

Meaning of Term: Different Forms of Government; Colonial Governments; Constitution of the United States; United States Government, Legislative, Executive, and Judicial Branches; Noteworthy Days and Events of Catholic History in the United States.

Text: Boynton.

Irish History. Two Periods a Week.

Geography of Ireland; Pre-Christian Period; Laws, Customs and Antiquities of the Milerians. St. Patrick; The Danes; Norman Invasion; The Campaign under Bruce; The Geraldines; The Beginning of Religious Persecutions. The National Confederacy;

Cromwell and the Cromwellians; The Penal Code; The Struggle for Legislative Independence; Catholic Emancipation; Home Rule and the Land Question; Education.

II Year High School. Two Periods a Week.

First Semester—Ancient History; Egypt; Assyria and Babylon; Media and Persia; Phœnicia and Carthage; Greece; Macedonia; States Formed from the Dismemberment of Alexander's Empire.

Second Semester—Roman History: The Monarchy (B. C. 753-509); The Republic (B. C. 509-29); The Empire, Pagan and Christian (B. C. 29, A. D. 476).

Text: Gazeau's Ancient and Roman History.

III Year High School. Two Periods a Week.

First Semester—Great Invasions and Fall of the Empire of the West; History of Gaul, Great Britain, Spain, Italy; The Church and the Barbarians; Ascendency of the Carlovingians; Mohammedanism; The Church and Christian Civilization; The Empire and Feudalism; Germany and Italy; Struggle of the Papacy and the Empire.

Second Semester—Crusade in the East; Crusade in Europe, France, England and Ireland; The Great Schism of the West; Hundred Years' War; Germany, Switzerland, and Italy; The Greek Empire and the Ottoman Turks.

Text: Gazeau's History of the Middle Ages.

IV Year High School. Two Periods a Week.

First Semester—Decline of Feudalism; The Protestant Reformation; Religious Wars in France; Thirty Years' War; Louis XIV., The Two Revolutions.

Second Semester—The First French Republic; The Empire; Catholic Emancipation and Reform in Great Britain and Ireland; The Eastern Question in Europe; The Revolution of 1848; Russia and the Eastern Question; Recent Changes in Italy; France, Spain and the Minor States of Europe; The British Empire.

Text: Gazeau's Modern History.

BUSINESS DEPARTMENT

FIRST YEAR

First Term

	Periods
Religion	3
English	2
Arithmetic	5
Commercial Geography	1
Business Law	2
Bookkeeping	5
Phonography	5
Typewriting	5

Second Term

	Periods
Religion	3
English	2
Arithmetic	5
Commercial Geography	1
Business Law	2
Bookkeeping	5
Phonography	5
Typewriting	5

SECOND YEAR

First Term

	Periods
Religion	3
English	2
Arithmetic	5
Civics	2
Bookkeeping	5
Phonography	5
Typewriting	5

Second Term

	Periods
Religion	3
English	2
Arithmetic	5
Civics	2
Bookkeeping	5
Phonography	5
Typewriting	5

Daily Practice in Penmanship.

SUBJECTS OF INSTRUCTION

CHRISTIAN DOCTRINE

First Business—As outlined for Third Year High School, p. 65.

Second Business—As outlined for Fourth Year High School, p. 65.

ENGLISH

I Business

1. Business Orthography. (*Gregg's Business Speller.*) Oral, written, and typewritten. Spelling of words selected from business and every-day life. Orthography of words that occur in every day's lessons. Study of synonyms, homonyms, and autonyms. Dictation. Study of the diacritical marks, abbreviations, initials, and the proper use of the dictionary.

II Business

Business Orthography. Program as outlined for I. Business. Business English and Essentials of Letter Writing.

I Business

Grammar: Choice of words; false syntax; punctuation; capitalizing; paragraphing.

3. Composition: Plan and outline. Subjects, descriptive, reproductive, narrative. Exercises in business and social letter writing.

Text: Gregg's Business English.

4. English Classics: Webster, *Bunker Hill Speech;* Shakespeare, *Merchant of Venice;* Scott, *Ivanhoe.*

II Business

1. Business orrespondence. Letter Writing. Principles of rhetoric reviewed; phraseology; punctuation; capitalization; paragraphing; style and its essential qualities; figures.

2. Composition: Plan and outline. Subjects; descriptive; reproductive; narrative; argumentative. Essays, summaries, criticism, detailing. Exercises in formulating letters, telegrams, cablegrams. Study of the Postal Service and postage rates.

Text: English Classics—*Lion of Flanders* (Conscience), *Macbeth* (Shakespeare).

PRACTICAL BUSINESS ARITHMETIC

Moore and Miner

I Business

Review of Fundamentals; Average; Checking Results; Decimal Fractions; Factors; Divisors and Multipliers; Common Frac-

tions; Aliquot Parts; Bills and Accounts; Denominative Quantities; Practical Measurements; Percentage as applied in Bookkeeping; Daily Practice in Rapid Calculation.

II Business

Percentage; Commercial Discounts; Gain and Loss; Marking Goods; Commission and Brokerage; Property Insurance; State and Local Taxes; Customs; Duties; Interest; Bank Discount; Partial Payment; Banker's Daily Balances; Stocks and Bonds; Life Insurance; Partitive Proportion and Partnership; Storage; Daily Practice in Rapid Calculation; Use of Adding Machine; Method of Proving Results by Check Numbers.

COMMERCIAL GEOGRAPHY

GANNET-GARRISON-HOUSTON

I Business

COMMERCIAL CONDITIONS: Climate and Topography; Influence of the Climate and Topography on Life; Social CConditions; Manufacturing Facilities; Transportation Facilities; Financial Conditions; Soil and Its Cultivation; Vegetable Products; Animal Products; Mineral Products.

UNITED STATES: Vegetable Products; Animal Products; Mineral Products.

UNITED STATES: Manufacturers; Transportation; Commerce and Population; Vegetable Products; Animal Products; Mineral Products; Manufacturers; Transportation; Commerce and Population of Alaska; Canada; Newfoundland; Danish America; Mexico; Central America; West Indies; Europe; Asia; Africa; Australia; New Zealand; Oceanica and South America.

ELEMENTS OF BUSINESS LAW

TELLER AND BROWN.

I Business

PRELIMINARY TOPICS: Business Law; Property; Courts; Procedure; Formation of Contracts; Agreement; Competent Parties; Consideration; Form Writing; Seal; Legality of Object; Reality of Consent.

OPERATION AND DISCHARGE OF CONTRACTS: Liabilities and Rights of Third Parties; Assignment of Contracts; Discharge of Contracts; Discharge in Bankruptcy; Particular Contracts Concerning Goods.

BAILMENT OF GOODS: Bailments Solely for Benefit of One Party; Mutual Benefit Bailments; Special Cases of Bailment for Keeping of Transportation; ases Not Strictly of Bailment.

INSURANCE CONTRACTS: Life; Property; Marine; Policies; Waranties.

Particular Contracts Concerning Credits: Credits and Loans; Interest; Usury; Banks; The Contract of Guaranty; Security.

Negotiable Instruments: Nature and Characteristics; Form; Negotiation; Maker's and Acceptor's Contract; Drawer's and Endorser's Contract.

The Conduct of Business Through Representatives: Agents; Priciple and Agent; Appointment of Agents; Obligations of Principle and Agent to Each Other; Liabilities of Principle to Third Parties; Liability of Agent to Third Parties; Master and Servant; Inquiry to Servants.

Buiness Associations: Partnerships; Joint Stock Companies; Corporations.

Property in Land and Movables: Real Property; Estates of Real Property; Lands; Its Constituents; Growths and Fixtures; Relative Right of Adjoining Owners; Transfer of Interests in Lands; Mortgages and Liens; Landlord and Tenant.

Personal Property: Classification; Kinds and Estates; Acquisition and Transfers.

SCHOOL CIVICS

Boynton-Harvey.

II Business

Government: Its Origin; Necessity; Object; Functions. Forms of Government—Colonial Government in America: Its Object and Development to the Constitution; Attempts of Union (1643-1777). The Articles of Confederation (1781-1789). The Constitution: Its Formation and Adoption; Its Origin and Nature. Legislative Department: Its Organization; Its Powers; Its Limitations; Its Working. Executive Department: President and Vice-President; President's Assistants. Judicial Department; Federal Courts; The States; On their Relation to the Constitution. The Bill of Rights; The Individual in his Relations to the Constitution. Miscellaneous Provisions: The Unwritten Constitution; State Governments; Municipal Government; American Politics and Political Parties; International Law; Municipal Law.

Civics of Ohio: Early Government of the Territory which is now Ohio; The Constitution of Ohio and the State Government; The Preamble; The Bill of Rights; The Legislative Branch of the State Government; The Judicial Branch of the State Government; Miscellaneous; Local Government in Ohio; The County; The Township; Municipal Government; The Harrison School Code.

BOOKKEEPING

WILLIAM AND ROGERS, INTRODUCTIVE.

I Business

DOUBLE ENTRY: Journalizing; Posting; Trial Balance; Balance Sheet; Loss and Gain Account; Daybook Journal; Forwarding; Writing and Filing of Business Forms; Exercises in Writing Checks; Notes and Drafts; Practical Business Method of Computing Interest and Discount; The Check Book; Cash Book, Bill Book, and Sales Book; Directions for Taking Inventories and Finding Errors in Trial Balances; Six Column Journal.

SINGLE ENTRY: Journal and Cash Book; Monthly Statements; hanging from Single to Double Entry.

SUPPLEMENTS (*Southwestern Publishing Co.*) Part I. (*Ellis Publishing Co.*) Interstate Exercises.

II Business

(*Modern Business Bookkeeping.*)

Special Column Journal for Retail Grocery Business; Retail Coal Business; Wholesale and Retail Lumber Business; Shipments and Consignments; Jobbing; Manner of Detecting and Correcting Errors; Verifying Inventories of Text Books; Forwarding Accounts; Check Numbers; Opening of New Books and Transferring Accounts from Old to New; Installment Houses and Agencies; Commercial Agencies; Cost Accounting; Averaging; Manufacturing; Joint Stock Companies; Changing from a Proprietorship to a Joint Stock Company; Banking; Clearing House; Department Stores, Loose Leaf Ledger; Typewriter Bookkeeping (*Brown*).

SUPPLEMENTARY: *Marshall's Drills.* Advanced Exercises from *Ellis*, Higher Accounting (*Goodyear-Marshall* and *Moore & Miner*). Complete Filing Case for Card System. Manipulation Register (Late Model 4-Drawer).

PHONOGRAPHY

GREGG.

I Business

Simple forms of characters; simple word-signs and phrase-writing. Blended consonants; compound words; the abbreviating principle. Dictation from First and Second Readers.

II Business

Review of first nine (9) lessons. Omission of vowels; joined prefixes, disjoined prefixes; joined affixes; disjoined affixes. Analogical Abbreviation; advanced phrase-writing; initials. Taking down of dictated business letters and speeches. Daily practice for speed and rapid transcription.

TYPEWRITING

Underwood, Monarch, L. C. Smith, Remington, Smith, Premier.

I Business

Scientific Touch Typewriting Manual, Bliss Co.
Touch system, keyboard, sentences, tabulating.

II Business

Arithmetical Exercises. Addressing envelopes, letter writing; transcribing shorthand notes taken in dictation. Duplicating by Letter Press; manifolding by carbon; stenciling for Underwood Duplication. Designing and display forms. Arithmetical exercises. Proper care of machines, and adjusting of ordinary difficulties.

PENMANSHIP

I Business

The Ideal Method of Muscular Movement Business Writing.

II Business

The Ideal Method of Muscular Movement Business Writing.
Use of Automatic Shading Pen.

ELEMENTARY DEPARTMENT

Faculty

Rev. Bernard P. O'Reilly, S. M.
President

Bro. Aloysius Kreipl, S. M.
Eighth Grade A

Bro. Edgar Cullen, S. M.
Eighth Grade B

Bro. John Voelker, S. M.
Seventh Grade

Bro. Lawrence Plantholt, S. M.
Sixth Grade

Bro. John Gormady, S. M.
Fifth Grade

Bro. Emil Žadow, S. M.
Bro. Frederick Paff, S. M.
Bro. Henry Hemmert, S. M.
Bro. George Weis, S. M.
Religion

Emil Hocke
Physical Instructor

MUSIC DEPARTMENT

Faculty

Bro. Louis Vogt, S. M.
Violin, Orchestra

Louis Kelly
Piano

Fred Moehring
Cornet

ELEMENTARY DEPARTMENT

SUBJECTS OF INSTRUCTION

CHRISTIAN DOCTRINE

Fifth Grade

Catechism of Christian Doctrine. Plenary Council of Baltimore, No. 2.

Sixth Grade

Catechism of Christian Doctrine. Plenary Council of Baltimore, No. 2 (revised). Liturgy; Sacred Vessels; Vespers; Benediction; Vestments; Blessed Ashes; Palms; Use of Holy Water; Blessed Candles; Processions.

Seventh Grade

Catechism of Christian Doctrine. (Deharbe's Small Catechism). Ten Commandments as in Bible; Cardinal Virtues; Evangelical Counsels; Nine Ways of Being Accessory to Another's Sins; Sins That Cry to Heaven for Vengeance; Liturgy; Gospels of Sundays and Festivals; Principal Feasts.

Eighth Grade

Deharbe's Small Catechism reviewed. Liturgy; Manner of Serving at Mass; Articles Needed for and Ceremonies of All the Sacraments, especially Baptism, Extreme Unction, and Viaticum.

SACRED HISTORY

Fifth Grade

Old Testament. The principal events in the four epochs from Adam and Noah; Noah to Abraham; Abraham to Solomon; Solomon to Christ. Creation; Angels; Adam and Eve; Cain and Abel; Seth; Deluge; Babel; Abraham; Isaac; Jacob; Esau; Joseph; Moses; Josue; The Judges; Solomon; Roboam.

New Testament. The principal events in the four periods extending from A. D. 1 to A. D. 30; Holy Childhood; A. D. 30 to A. D. 33, The Public Life; Week of the Passion; The Glorious Life. See for reference the Teachers' Manual.

Sixth Grade

Old Testament. Review of the principal events of the Old Testament as in the preceding grade, but with more detail and further subdivision of the epochs by the aid of the mnemonic word "Ajenamsec." X

New Testament. Work of the preceding grade studied with more detail, introducing maps of Palestine and of the holy places.

Seventh Grade

Old Testament. Review of the work of the preceding grade, with intensive study of the period 26 B. C. to the birth of Christ; The Kingdom of Israel; the Prophets; Kingdom of Juda; Juda in Captivity; The Return from Captivity; Under the High Priests; Asmonean Dynasty; Herodean Dynasty.

New Testament. The First, Second and Third Journeys of Our Lord about the Sea or Lake of Galilee. Map-drawing in connection with it.

Eighth Grade

Review of the work of the preceding grades, with a special study of Jerusalem; Jerusalem Before Christ; Jerusalem at the Time of Christ; The Church of God Prefigured in Sacred History; Foundation of the Catholic Church.

ENGLISH

Fifth Grade

(*a*) *Reading.*
(*b*) *Word Study.*
(*c*) *Language and Composition..*
(*d*) *Literary Selections for Explanation and Study.*
(*a*) *Reading,* Benziger's III. Reader.

Supplementary reading is to be found in the lists of literary selections for the class.

(*b*) *Word Study.*

1. Spelling.
2. Etymology. Selected lists of Prefixes, Suffixes, and Roots.
3. Phonics. Diacritical marks and use of dictionary.
4. Syllabication. Simple rules.

Text: Champion Speller.

(*c*) *Language.*

1. Synthesis of simple sentences. Topic to be chosen preferably from object lessons suggested by texts in reading Sacred History, United States History, Geography, and Nature Study.

Analysis of a simple sentence with reference to subject, predicate and copula, and possibly adjective modifiers.

2. Grammar. To distinguish nouns, pronouns, verbs without reference to mood or tense, and adjectives in a sentence. Rules and exercise with reference to singular and plural, masculine, and feminine.

3. Punctuation.

Texts: Hoenshel's Grammar.

Sixth Grade

(*a*) *Reading.* Benziger's IV. Reader.

Supplementary reading to be found in the literary selections for this grade.

(*b*) *Word Study.*

1. Spelling words selected from the various text-books used in the class. List of words frequently misspelled. Review lists of common words. Exercises in synonyms. Train pupils to arrive at the meaning of words from the context.

Text: Champion Speller.

2. Phonics. Require lists of words to be marked diacritically. List of words whose pronunciation is to be sought. Geographical and historical names.

3. Etymology. Selected lists of Prefixes, Suffixes, and Roots. Use of the dictionary in forming groups or family of words from the above.

(*c*) *Language and Composition.*

1. Synthesis of simple and complex sentences, introducing relative clauses, adjuncts, modifiers, phrases.

Analysis of simple and complex sentences.

2. Grammar. Nouns; kinds and properties. Personal pronouns; their person, number, gender, and case. Verbs; transitive and intransitive, mood (but not the subjunctive), tense, person and number. Adjectives:: of time, place, and manner, comparison. Prepositions, Conjunctions, and Interjections.

3. Punctuation. Draw attention to the use of the period, the comma, colon, and semicolon, exclamation point, and interrogation point in the course of reading. Study a certain number of abbreviations.

4. Daily practice in the formation of simple and complex sentences upon topics suggested by the studies in reading, history, geography, and nature. Introduce letter-writing. Paraphrasing of literary selections studied in class (second term).

Texts: Hoenshel's Grammar.

Seventh Grade

(*a*) *Reading.*

(*b*) *Word Study.*

(*c*) *Language and Composition.*

(*d*) *Literary Selections for Explanation and Study.*

(*a*) *Reading.* Benziger's IV. Reader.

The Polite Pupil. Insist upon Chapters V. and VI.

(*b*) *Word Study.*

1. Spelling. Selected words from text-books used in class. Exercises in synonyms, homonyms, and antonyms.

2. Phonics. Diacritical marks. Lists of geographical and historical names.

3. Etymology. Selected lists of Prefixes, Suffixes, and Roots. Use of dictionary in connection with the forming of groups or family of words with the elements above.

4. Punctuation and Capitals.

(*c*) *Language and Composition.*

Synthesis and analysis of simple, complex, and compound sentences, with modifiers, adjuncts, and phrases.

Grammar. Formal grammar on the basis of Hoenshel's grammar, with the most important rules of Syntax.

Composition. Oral and written reproduction of stories from Sacred History; topics suggested by Geography, Unted States History, Literary Selections used in class. Letter writing.

Paraphrasing of certain literary selections.

Texts: Hoenshel's Grammar.

Eighth Grade

(*a*) *Reading.*

(*b*) *Word Study.*

(*c*) *Language and Composition.*

Classics: Seven American.

(*d*) *Literary Selections for Explanation and Study.*

1. Spelling. Selected words from the text-books used in the class. Exercises in synonyms, and antonyyms.
2. Phonics. Diacritical marks.
3. Etymology. Selected lists of Prefixes, Suffixes, and Roots.
4. Punctuation and Capitalization.

(*c*) *Language and Composition.*

Daily practice in synthesis and analysis of simple, complex, and compound sentences, with modifiers, adjuncts, phrases.

Grammar. Formal grammar on the basis of Hoenshel's Advanced Grammar. Intensive study of the verb.

Composition. Oral and written reproduction stories from Sacred History; topics suggested by Geography, Unitea States History and Literary Selections committed to memory.

Texts: Hoenshel's Grammar; Seven American Classics.

UNITED STATES HISTORY

Fifth Grade

A few leading facts of the general history. Selected lives of great men in early American History. Lives, adventures, and events in United States History.

Topics for history should be chosen in connection with studies in geography. No topic should be considered completed until the pupils have written a composition upon the same.

Sixth Grade

Discoveries and explorations. Settlements and Inter-Colonial Wars.

I. *The New World: Discoveries, Explorations, and Claims.*

Extent of knowledge of the world before the discovery of America. Motives which prompted European Explorations. English, French, and Dutch Discoveries and Explorations.

II. *Colonial Development.*

Southern Colonies, New England Colonies, Middle Colonies.

III. *Inter-Colonial Wars.*

Causes: King William's War, Queen Anne's War, King George's War, French and Italian War. Conditions of the Colonies after the wars.

Map Drawing.

Seventh Grade

The Revolution, Establishment of the Federal Government, Growth of the Nation.

I. *The Revolution.*

Causes of the Revolution. Beginning of the War. (1775-1776.) New England and Canada. Campaigns of 1776-1778, principally in the Middle States. Campaigns of 1778-1781, principally in the Southern States. Treaty of Peace. 1783.

II. *Organization of the Government of the United States.*

III. *The Development of the Union.* 1789-1845.

Maps to be constantly used in connection with lessons in history.

Eighth Grade

Development of the Nation, continued (1845-1909). The Tariff Question and Growth of Sectional Feeling. Inventions and Improvements and their effects. The Civil War.

Text: Benziger's History, revised.

GEOGRAPHY

Fifth Grade

First Term.

Dayton. General talks about the people, animals, and plants of our town and other countries. The earth on which we live. Representations of the earth's surface. The globe representing the earth. Climate of different parts of the earth. North America: Outlines, boundaries, land and water divisions, climate, productions, inhabitants, political divisions.

Second Term.

The United States. Boundaries, general outline, size, land and water, divisions, climate, soil productions, vegetation, animals, minerals, inhabitants, their occupation, important cities.

Sixth Grade

First Term.

Short Review of general questions of the preceding grade. Latitude and Longitude.

Study of South America. Position; boundaries; physical features; climate; inhabitants; races of men; their modes of life

and occupation; commerce; political divisions, important cities.

Second Term.

Europe and Asia.

Countries, positions, cities, rivers, mountain ranges.

Seventh Grade

Mathematical Geography. Shape and Size of the Earth, Motions, Latitude and Longtitude, Change of Seasons, the Zones, Globes and Maps.

Physical Geography. Surface, Land and Water Formations, Winds, Climate, Plants, and Animals.

Political Geography. Man, Religion, Industrial, Pursuits, Governments, etc.

Above topics studied in connection with extensive studies of North America, United States, Canada, Mexico, Central America.

Text-book: Maury's Hanual of Geography, Revised. (To page 76.)

Eighth Grade

Extensive study of South America, Europe, Asia, Africa, Australia, and Oceanica, on same plan as for Seventh Grade.

Maury's Manual, Revised. (Page 76 to the end.)

ARITHMETIC

Fifth Grade

Review the multiplication tables. Continue drills in the four fundamental operations. Work for accuracy rather than rapidity. United States Money. Concrete problems. Written analysis of problems involving the fundamental operation. Factors of numbers less than 100. G. C. D. and L. C. M. by the method of factoring. Denominate numbers. The most important units of length, surface, volume, weight, and time. Tables of surface and volume are to be deducted and practically from tables of length. Insist upon the written analysis of the problem. Problems in Mental Arithmetic should precede every lesson in Arithmetic.

Sixth Grade

Short review of some of the work of the preceding grade.

Simple fractions. Addition and subtraction of fractions. Multiplication and division of fractions. Concrete problems involving the above. Insist upon written analysis of solution. Decimal fractions. Bills and accounts. Area of surfaces, rectangles, parallellogram, and triangle. Problems involving such surfaces. Area of land estimated in acres. Volumes of the cube and prism.

Seventh Grade

Review fractions and mensuration of the preceding grade.

Conversion of fractions and mensuration of the preceding grade.

Conversion of fractions to decimals and inversely. Percentage Commercial Discount. Profit and Loss. Commission. Simple Interest. Circumference and area of the circle. Surface and volume of the cylinder.

Eighth Grade

Review fractions and mensuration of the preceding grades.

Latitude and Longitude. Review some of the more important problems of percentage. Ratio and proportion. Analytical method. Power and roots.

Texts: Hamilton's Elementary and Complete Arithmetic.

PENMANSHIP AND DRAWING

Penmanship.

Palmer Method used in all grades.

Drawing.

Augsburg's Standard Course.

Fifth Grade, No. 4; Sixth Grade, No. 5; Seventh Grade, No. 6; Eighth Grade, No. 7.

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St. Mary's College

DAYTON, OHIO

College of Engineering

(Inaugurated, September, 1910)

College of Arts, Letters and Science, High School, Business & Elementary Departments

A new Dormitory Building was opened September 7, 1911. All private rooms are equipped with every convenience—electric light, steam heat, hot and cold water and pure spring water. Bath rooms are installed on every floor. No expense was spared to make the rooms as comfortable and home-like as possible.

St. Mary's has all that a college of today calls for, viz: Halls, modern in every detail; complete equipment, (laboratories, libraries, museum, etc.,) a picturesque park, extensive grounds and large campuses to accommodate the entire student body.

For bulletin and illustrated literature apply to

Rev. Bernard P. O'Reilly, S. M., Pres.

37 H
5/16

St. Mary College BULLETIN

ST. MARY COLLEGE
DAYTON, OHIO

UNIVERSITY OF ILLINOIS
SEP 14 1915
PRESIDENT'S OFFICE

~~1914~~ – 1915 - ~~1916~~

SIXTY-FIFTH YEAR

UNIVERSITY OF ILLINOIS LIBRARY

SERIES XXVII NUMBER 1

IMPORTANT

Beginning with the scholastic year, 1915-1916, the institution formerly known as "St. Mary's Institute" and "St. Mary's College" will be officially known as "St. Mary College." The change of name is being made on the occasion of the re-incorporation of the institution which hereafter will comprise the Collegiate, High School, Business and Elementary Departments, located in South Park, Dayton, Ohio, and the Mount St. John Normal Department for the training of Teachers of the Society of Mary, located at Mount St. John, Green County, Ohio.

THE COLUMBIAN PTG. & PUB CO
COLUMBUS, OHIO

COLLEGE CALENDAR

1915-1916

Sept. 6—Registration: High School, Business and Elementary.

Sept. 7—High School, Business and Elementary Departments open.

Sept. 13—College of Arts and Letters, opens 8 a. m.

Sept. 20—College of Engineering, opens 8 a. m.

Sept. 27—Annual Retreat begins.

Nov. 1—All Saints. No Classes.

Nov. 26—Thanksgiving Day. No Classes.

Dec. 6, 7, 8—Triduum in honor of the Im. Conception.

Dec. 8—Immaculate Conception. No Classes.

Dec. 12-19—Alumni Diamond Medal Contest.

Dec. 20—The Elocution Contest.

Dec. 22—Christmas Holidays begin.

Jan. 3—Classes resume, 8:45 a. m.

Jan. 15—Holy Name Service.

Jan. 24—First Term Examinations begin.

Jan. 28—Second Term Begins.

Feb. 22—Washington's Birthday. No Classes.

Mar. 5-12—Alumni Diamond Medal Contest.

Mar. 17—St. Patrick's Day. Half-holiday.

Mar. 26—Dr. D. G. Reilly Oratory Prize Contest.

Apr. 19—Easter Holidays begin.

Apr. 28—Classes resume, 8:45 a. m.

May 2, 3, 4—Triduum in honor of the Bl. Sacrament.

May 30—Decoration Day. No Classes.

June 1—Ascension. No Classes.

June 5—Examinations, Collegiate Classes.

June 8—Examinations, Fourth Year High and Second Business, begin.

June 12—Examinations, remaining classes.

June 15—Commencement.

1916-1917

Registration Day, Wednesday, September 6.

High School, Business and Elementary Departments open Thursday, September 7, 9:45 a. m.

College of Arts and Letters opens Monday, September 11, 8 a. m.

College of Engineering opens Monday, September 18, 8 a. m.

ST. MARY COLLEGE

DAYTON, OHIO

A Boarding and Day College for
Young Men and Boys

ESTABLISHED IN 1850 BY
THE SOCIETY OF MARY

I. COLLEGIATE

ARTS, LETTERS
SCIENCE
ENGINEERING

II. HIGH SCHOOL

III. BUSINESS

IV. ELEMENTARY

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ST. MARY COLLEGE

DAYTON, OHIO

GENERAL STATEMENT

St. Mary College is a boarding and day-college for young men and boys, under the direction of the Society of Mary. It was incorporated in 1878, and empowered to confer degrees by an act of the General Assembly of the State of Ohio.

Visitors arriving at the Union Station can take an Oakwood car going south at the corner of Main and Fifth streets, and proceed directly to the College.

The extensive grounds of over 50 acres are located in South Park, a remarkably picturesque spot within the city of Dayton, overlooking the Miami Valley. St. Mary has all that a college of today calls for, viz., dormitory building with private rooms; halls, modern in every detail; complete equipment for all departments (laboratories, libraries, museums, etc.); a picturesque park, a natatorium, a gymnasium and auditorium, club rooms, and campuses of over ten acres to accommodate the entire student body.

A new Dormitory Building was opened June 1, 1911. All private rooms are equipped with every convenience—electric light, steam heat, hot and cold water, and pure spring water. Bath rooms are installed on every floor. No expense is spared to make the rooms as comfortable and home-like as possible.

Another building, Nazareth Hall, until recently occupied by the Normal Department, has been remodeled to accommodate the resident and non-resident students of the Elementary Grades.

INSTRUCTION

Departments There are four distinct Departments of Studies at St. Mary: The Collegiate Department, the Preparatory or High School Department, the Business Department and the Elementary Department. The studies in all Departments, excepting the Collegiate, are prescribed and not elective.

Collegiate Department The Collegiate Department comprises the College of Arts, Letters and Science and the College of Engineering.

The College of Arts, Letters and Science purposes to offer to the student the time and opportunity to cultivate further and to bring to maturity the qualities of mind and

heart and will that have been developed to great extent in the Preparatory and High School Departments. To attain this aim a greater latitude is permitted in the selection of studies. The studies of the Collegiate Department are divided into four groups, leading to the degrees of Bachelor of Arts, Bachelor of Letters, Bachelor of Science and Bachelor of Engineering. The selection of studies is made with the assistance of an Advisory Board, and with the approval of the Prefect of Studies. Christian Doctrine, Philosophy, and English are considered fundamental studies for all degrees. Latin and Greek are characteristic studies for students wishing to obtain the degree of Bachelor of Arts. Latin, History, and Modern Languages are characteristic studies for candidates aspiring to the degree of Bachelor of Letters. The Sciences, Mathematics, and Physics, or Chemistry, or Biology, are characteristic studies for the degree of Bachelor of Science. In addition to this there is granted more or less selection in each group, especially in the Senior Year. For a detailed account of studies offered in the Collegiate Department, see the Program of Studies.

The College of Engineering, organized September, 1910, is designed to satisfy an oft-repeated desire and to fill a long-felt need. This College is a natural outgrowth of the science courses which have always received considerable attention at St. Mary.

No effort is spared to acquaint the student thoroughly with the fundamental principles and to give him a good insight into the theoretical analysis of engineering problems. While emphasis is laid on fundamental theory, continual attention is paid to the solution of practical problems for the purpose of imbedding principles and illustrating the lines of their general industrial application. At the same time students are trained to habits of initiative and industry, and will thus be well prepared to adapt themselves readily to actual conditions and requirements, and to grapple with new problems that from time to time confront the professional engineer.

Lecture and text-book courses are accompanied throughout by quantitative work in well-equipped laboratories.

Frequent visits are made to accessible engineering establishments to make the student thoroughly conversant with the trend of current engineering practice. For such purposes Dayton offers exceptional facilities owing to the great number and variety of engineering plants located in the city and vicinity.

Lectures by engineers in active service will help to keep the student in touch with professional work.

For detailed information see the Program of Studies.

Preparatory Department The course of study in the Preparatory or High School Department extends through four years, and is equivalent to the usual High School course given in American High Schools. It provides a systematic instruction in Christian Doctrine, English Composition, Rhetoric, Literature, English Classics, Latin, a modern language (German, French, or Spanish), Algebra, Geometry, Physical Geography, Physiology, Botany, Zoology, Chemistry, Physics, Civics, Ancient, Mediaeval and Modern History, and Elocution. (For a detailed account of the courses, see the Program of Studies.) A certificate of graduation from the Preparatory Department, or its equivalent, is required for entrance into the Freshman Class of the College.

Commercial Department The Commercial or Business Department is intended for those who cannot command the time, or have not the inclination for a thorough High School and Collegiate training. While the curriculum does not develop the mental faculties so fully and so harmoniously as the more thorough and systematic courses in the classics and sciences offered by the Collegiate Department, nevertheless it supplies all requirements of a good business education. The curriculum comprises the study of Religion, a thorough course in English, including Grammar, Rhetoric, Literature, English and American Classics, Business Writing, Composition, General History, Business Arithmetic, Bookkeeping, Commercial Law, Commercial Geography, Phonography, Typewriting, and Elocution. The course lasts two years, and is open to students who possess the necessary preliminary instruction. For a detailed account of studies refer to the Program of Studies.

Elementary Department The Elementary Department accommodates students of the fifth, sixth, seventh, and eighth grades of grammar school. It provides a sound training in Christian Doctrine, Reading, Penmanship, Grammar, Arithmetic, United States History, Geography, Elocution, Drawing and Etiquette. The completion of the elementary course, or of the eight years' course in a parochial or public school is required for entrance into the Preparatory or High School Department. For detailed account of studies, see the Program of Studies.

Session The academic year consists of only one session, beginning in the first week of September, on the date specified on index page, and closing in the latter part of June.

It is very desirable that all students enter on the first day of the session; however, applicants are received at any time during the academic year and charged for the remainder of the session.

Candidates for admission are required to present testimonials of good moral conduct.

Rank

In the Elementary, Preparatory and Business Departments the rank of each student is determined by daily marks, weekly competitions, and half-yearly examinations. A record of the standing of each student in scholarship and conduct is kept in the registers of the College, and a copy is sent to the parents and guardians at the end of each month.

In the Collegiate Department there are written tests once a week, or at least once every two weeks, according to the nature of the subject, supplemented by oral recitations, at the discretion of the professors.

Bi-monthly records of these tests and of written work (tasks) are kept by the professors.

The monthly standing of the students is publicly proclaimed at the beginning of the month.

After each semester there are written examinations on the program of the last half-year, supplemented by oral examinations, if demanded by the nature of the subject.

An average of 70 per cent. for the written work, written tests, and the semester examinations is required to receive credit for any study.

Medals

Medals and honors for scholarship are awarded at the Annual Commencement and published in the July issue of the "*Exponent*," the College Magazine.

Gold medals for excellence in class studies are awarded in the High School and Business classes.

Excellence in class studies is determined by the monthly marks, weekly competitions, and half-yearly examinations.

A minimum average of eighty-five per cent. is required to win a gold medal.

Honors for single studies are determined by competition only.

A mention for First Honors is given to students that have attained an average of ninety per cent. A mention for Second Honors is given to those students that have attained an average of eighty-five per cent.

Prizes are awarded to the students preparing for the B. A. and B. L. degrees as follows:

Freshman—Excellence in English Studies.
Sophomore—Excellence in Latin Studies.
Senior—Excellence in Philosophical Studies.

Prizes are awarded to students preparing for the Engineering degree as follows:

Freshman—Excellence in Mathematics and Chemistry.

Sophomore—Excellence in Mathematics and Physics.
Junior Electrical—General Excellence.
Junior Chemical—General Excellence.
Senior Electrical—General Excellence.
Senior Chemical—General Excellence.

Following are the prizes and medals donated by generous friends of the College:

Two gold medals for Excellence in Irish History, in the Preparatory Department, donated by the Ladies' Auxiliary of the Ancient Order of Hibernians and the Ancient Order of Hibernians.

The Rev. Bernard J. Kuhlman Prize for American History. The Rev. Bernard J. Kuhlman, D. D., Catholic Chaplain at the National Military Home, is the donor of an annual cash prize of $25 for the best essay in American History. The subject is assigned by the reverend donor. The contest is open to all the students of the Preparatory and Collegiate Departments. The essay must show original research work and throw light on subjects of American History, especially such as are disputed today.

A gold medal for Elocution, donated by C. E. W. Griffith. This gold medal is decided in public contest. All students of the High School and Business Department are eligible to compete.

A gold medal for Excellence in English Studies, Freshman Letter Class, in memory of George A. Pflaum, Dayton, O.

A gold medal for Excellence in Mathematics and Physics, donated by the Hon. Thomas J. Coughlin, '93, of Cleveland, O.

A gold medal for Excellence in Christian Doctrine, in the Collegiate Department, donated by William H. Holters, of Covington, Ky.

A gold medal for Excellence in Theodicy, in the Senior Class, donated by the Rev. F. Joseph Kelly, '90, of Dayton, Ohio.

The Alumni Association is the perpetual donor of a gold medal to be awarded to a member of the graduating class for proficiency in English composition, both prose and verse. The competitions for the medal are held in December and March and comprise each time an essay and a piece of verse. Students who have distinguished themselves in composition during the year, and who have been active contributors to *The Exponent* are eligible to compete.

The Harry C. Busch Excellence Prize. The Hon. Harry C. Busch, '96, attorney of Cincinnati, is the donor of a cash prize of $20.00 in gold to the honor student of the Senior Letters Class, who at the time of graduation has the highest averages for Latin, Greek, English, and History for his entire Collegiate course.

Chicago Alumni Athletic Medal. The Chicago Alumni Association is the donor of a medal to be awarded the student excelling in all the Varsity sports at the College.

The Dr. D. G. Reilly Oratory Prizes. Dr. D. G. Reilly, one of the college physicians, has established an Oratory Endowment Fund of $1000.00, the annual proceeds of which realize three prizes of $30.00, $20.00 and $10.00 in cash to the three most successful participants in the annual Oratorical contest. All students of the Collegiate Department are eligible to compete.

The Rev. Charles Polichek Philosophy Prize. The Rev. Charles Polichek, pastor of the Holy Name Church, Dayton, Ohio, is the donor of a cash prize of $30.00 in gold, to be awarded to the two honor students in Philosophy. The first prize is $20.00, the second $10.00.

The Rev. Charles Polichek Junior Engineering Excellence Prize. The Rev. Charles Polichek is also the donor of a cash prize of $15.00, to be awarded to the Excellence student of the Junior Engineering Class.

The Rev. Charles Polichek History Medal. The Rev. Charles Polichek is also the donor of a gold medal to be awarded to the Excellence student in History of the Collegiate Department.

The Rev. Daniel A. Buckley Latin Medal. The Rev. Daniel A. Buckley, pastor of St. Raphael's Church, Springfield, Ohio, is the donor of a gold medal, for Excellence in Latin studies in the Sophomore Class.

The Rev. Otto B. Auer Elocution Prize. The Rev. Otto B. Auer, pastor of St. Mary's Church, Dayton, Ohio, is the donor of $30.00 in gold, to be awarded as cash prizes to the three most successful participants in the Annual Elocution Contest: $15.00 for the first, $10.00 for the second, and $5.00 for the third.

The Bernard M Focke, Jr., Senior Engineering Excellence Prize. Bernard M. Focke, '02, attorney of Dayton, is the donor of a cash prize of $20.00 in gold, to be awarded to the Excellence student of the Senior Electrical Engineering Class.

The John C. Shea Sociology Prizes. John C. Shea, a Dayton attorney, is the donor of two cash prizes, $10.00 and $5.00 in gold, in memory of his mother, Mrs. Catherine Shea, for the best theses on "The Errors of Socialism."

The Rev. Charles Polichek Senior Chemical Engineering Excellence Prize. The Rev. Charles Polichek is the donor of a cash prize of $20.00 to be awarded to the Excellence student of Senior Chemical Engineering Class.

The Rudolph Wurlitzer Music Medal. Rudolph Wurlitzer of Cincinnati, Ohio, is the donor of a gold medal for the Excellence student in Music.

Students who enter the College after January 1 cannot compete for awards.

The boarding and day-students whose average monthly standing in conduct and application is 95 per cent., receive honors for good conduct at the Annual Commencement. If, at the time of graduation from the Collegiate Department, a boarding student has been awarded honors for four years, two of which immediately preceding graduation, he is entitled to a medal for good conduct.

Promotions

Class promotions are determined at the close of the year by the result of the term examinations, by the monthly class percentages, and by the weekly competitions. The promotions are proclaimed at the Annual Commencement.

Attendance at the courses is strictly enforced. A student who fails to attend ten per cent. of the number of periods devoted to any one study cannot receive credit for that study.

A general average of seventy per cent. is required to receive credit in any study. A student who has not attained an average of seventy per cent. in any study may be conditioned in that study. If he fails to attain an average of seventy per cent. in more than three studies out of ten, or more than four studies out of eleven, he will not be promoted.

No student will be permitted to take part in athletic contests if he has not attained an average of seventy per cent. for his studies.

Degrees and Diplomas

A student of the Senior Class who, at Easter, has not attained an average of seventy per cent. for the monthly marks and the January examination, cannot compete for graduation honors in the following June.

Upon the attainment of sixty-six points, and the recommendation of the faculty, the Board of Trustees will confer the degree of Bachelor of Arts, or Bachelor of Letters, or Bachelor of Science.

These degrees will be conferred according to the candidate's scholarship with the mention **summa cum laude**, or **magna cum laude**, or **cum laude.**

Upon the successful completion of one of the Engineering courses, the degree of Bachelor of Mechanical, Electrical, Chemical or Civic Engineering is awarded with the mention **summa cum laude**, or **magna cum laude**, or **cum laude.**

A diploma is awarded to students who have completed either the High School or the Commercial Course and have passed a satisfactory examination.

Libraries Besides the College library, there is a circulating library in the study hall of each division of boarding students.

DISCIPLINE

Methods The sole object of the College is to impart to boys and young men a thoroughly Catholic education. Its government is designed to continue the family life. In order to secure the regularity and assiduity that are indispensable to the success of any educational work, the students are uniformly held to strict obedience, diligent application, and blameless conduct. The discipline is conservative in character, and designed to train the students to habits of self-control and gentlemanly conduct. The manner of enforcing the regulations is firm, yet mild and parental, and appeals chiefly to the student's conscience and sense of honor. Convinced of the insufficiency of merely human means to insure the true education of mind and will and heart, the authorities of the College place their chief reliance for the success of their educational work on the influence of religious principles and practices. Hence, the doctrine and precepts of the Catholic religion are taught in all classes, and the exercises of religion hold a prominent place among the daily recurring events of school life.

Regulations The boarding students form four distinct divisions—the First, the Second, the Third, and the Fourth. Each division has its own study hall, playground, and club room.

The correspondence of the students is controlled by the authorities. No printed matter is allowed to circulate among the students until it has been examined and approved.

The students are not allowed to leave the grounds without a written permit.

Leave of absence is granted for one day, **on the last Sunday of each month,** to those among the boarding students whose marks for class work and deportment during the preceding month are satisfactory, and whose parents or relatives live in the city of Dayton.

The weekly holiday is Thursday. Sunday and Thursday are the most convenient days of the week for visiting students.

A short vacation is granted during the Christmas season and at Easter. No students are kept during the summer vacation.

It is of the utmost importance that the students be present every day of the academic session. Hence they should be prompt to return at the close of the vacations.

The ordinary causes for dismissal are insubordination and bad conduct.

DAY STUDENTS

During recreation and study hours the day-students form separate divisions.

The day-students are required to be at the College at 8:15 a. m. They may take dinner at the College by paying a slight additional charge, or they may bring a lunch with them from home. Class hours close at 3:30 p. m.

The day-students are expected to devote at least two hours at home to their studies every day.

Cleanliness, regularity, and gentlemanly conduct on the way to and from the College, as well as faithful observance of regulations, will be exacted from the day-students.

The day-students are expected to attend religious services in the parishes to which they belong, and they are therefore not required to attend the exercises held in the College chapel on Sunday.

The day-students are strictly forbidden to perform any commission for boarding students.

NECESSARY EXPENSES

Matriculation Fee (payable on first entrance)	$ 5 00
Tuition, Board, Laundry	240 00
Library, Athletic Fee, Physical Culture, and Admission to Lectures, Entertainments, Intercollegiate Games and Contests	10 00
Chapel Offering	5 00

PAYABLE IN ADVANCE, as follows:

On Entrance in September

Matriculation Fee (payable first year only)	$ 5 00
First Payment on Board, Tuition, and Laundry	120 00
Library, Athletic Fee, etc	10 00
Deposit on Book and Stationery Account	10 00
Chapel Offering	5 00
Total	$150 00

On January 20

Board, Tuition, and Laundry.....$120 00

In this Second Payment must be included all Extra Expenses, such as charges for use of Laboratories, Music, etc., and any extra expenses the student may have incurred.

OPTIONAL EXPENSES

PRIVATE ROOMS, PAYABLE IN ADVANCE..... $ 80 00 / 90 00 / 120 00

Owing to the fact that the number of private rooms is limited, money will not be refunded if a student loses the

privilege of his room. Exception is made to this ruling only in case of sickness.

Instrumental Music—

Piano with use of instrument, Grades A and B.....	$ 50 00
Grade C.....	55 00
Grade D.....	60 00
Violin (instrument furnished by pupil)	
Grades A and B.....	40 00
Grade C.....	50 00
Grade D.....	60 00
Orchestra or band membership—for music pupils—no charge	
For others.....	5 00
Artistic Drawing and Painting.....	20 00
Use of Office Appliances (Business Department).....	10 00
Phonography (private lessons)	10 00

Laboratory Fees—

Botanical and Zoological.....	$ 5 00
Chemical (High School).....	10 00
Physical (High School).....	10 00
Deposit for Breakage.....	10 00
Physical (Engineering Dept.).....	15 00
Chemical " "	15 00
Biological " "	5 00
Mineralogical " "	5 00
Electrical " "	15 00
Mechanical " "	10 00
Civil Engineer " "	5 00
Drafting Room " "	5 00

Graduation Fee

For all courses leading to Bachelor Degrees, $10.00; High School and Business Courses, $2.00.

Rates for Day Students

Tuition rates for Day Students are payable half-yearly in advance, as follows:

Matriculation Fee (payable first year cnly).....	$ 1 00
Elementary Department (per annum).....	30 00
High School Department (per annum).....	30 00
Business Course, with use of typewriter (per annum).	40 00
Collegiate Department (per annum).....	40 00
Physical Culture	1 00
Laboratory and Graduation Fees—(as above).	
Dinner at the College (per month).....	4 00

REMARKS

Repairs of all kinds are extra charges.

Books and stationery can be purchased at the College at current prices.

The College will not provide a student with clothing or extras unless a sufficient sum of money for this purpose be deposited with the Treasurer.

No deduction is allowed for the Christmas or Easter holidays.

Pocket money may be deposited with the Treasurer, to be given as prudence may suggest or occasion may require.

The College will not hold itself responsible for any valuables, such as money, rings, watches, etc., unless these are deposited with the Treasurer.

ALL DRAFTS AND CHECKS SHOULD BE MADE PAYABLE TO ST. MARY COLLEGE.

NO STUDENT WILL BE REGISTERED FOR A NEW SCHOLASTIC YEAR UNLESS HIS ACCOUNT FOR THE PREVIOUS YEAR IS SETTLED.

HONORS OF GRADUATION WILL NOT BE CONFERRED UPON STUDENTS WHOSE BILLS HAVE NOT BEEN PAID.

INTEREST WILL BE CHARGED ON BILLS OF SIX MONTHS' STANDING.

WARDROBE

Each boarding student should come provided with the following articles:

- 3 Suits—two for daily wear, one for Sundays.
- 1 Overcoat.
- 3 Changes of summer underwear.
- 3 Changes of winter underwear.
- 6 Pairs of stockings or socks.
- 6 Shirts.
- 3 Suits of Pajamas.
- 12 Handkerchiefs.
- 4 Towels.
- 4 Napkins
- 3 Neckties.
- 3 Pairs of Shoes.
- 2 Hats or caps.
- Toilet articles.

It is not necessary to mark the articles of clothing as they will be numbered at the college.

REGISTER OF STUDENTS

Abel, Herbert.....1st High A
Abele, Russell.....1st High B
Adelberg, Louis.....4th High
Agnew, Walter.....4th High
Alge, Edwin.....1st Business
Alston, Mark.....3rd High B
Archer, Walter.....3d High A
Arthur, Forman...1st Business
Arvai, Joseph.....6th Grade
Anderson, Leon....Senior Eng.
Anderson, Mark E...3d High A
Baczenas, Eugene...1st High C
Bailey, Carl.....2d High B
Bailey, Jesse K.....Special C
Barlow, Vincent.....4th High
Baumann, Leo.....3d High B
Behrer, Otto.....Soph. Eng.
Berghoff, Walter.....4th High
Boesch, Edw. J.....2d High A
Boesch, William.....3d High A
Boggan, Roy.....6th Grade
Bohnert, Herbert...8th Grade A
Bohnert, Leander..8th Grade A
Bornhardt, Harold...6th Grade
Brand, Marcellus....2d High A
Braun, Germain.....7th Grade
Breen, John.....1st High B
Breig, Ivo.....3d High B
Brennan, Geo. J....Soph. Eng.
Brennan, Wm. A....3d High A
Brinkman, Irvin...8th Grade A
Brissel, Vincent J...1st High B
Broadstone, Ray.....4th High
Bromley, Leon....8th Grade A
Brunner, Chas.....2d High A
Buerrer, Norman...8th Grade B
Buntell, Eug.....1st High A
Burk, Edward.....1st Business
Burkhardt, Alvin .G.Sen. Bus.
Burrows, David.....2d High B
Busch, Edward.....2d High A
Busch, Ralph.....2d High B
Cahill, Matthew.....3d High A
Carey, Leo.....3d High A
Carlton, Wm.....1st Business
Caron, Jerome.....1st Business
Caron, Lester.....1st High B
Carroll, Thomas.....2d High B
Cetinski, Colman....2d High A
Christi, L. A.....1st High C
Clancy, John F....Fresh. Eng.
Clasgens, Cyril.....4th High
Cobey, Jos. A.....3d High B
Coffit, Chas.....7th Grade
Collins, Daniel .....3d High A
Conkle, John.....6th Grade
Conliss, Edward.....7th Grade
Conway, Wm.....3d High B
Cooney, Walter.....4th High
Crawford, Springer....4th High
Crohen, Michael....8th Grade B
Crowley, John L...Fresh. Eng.
Culley, Francis.....Senior Arts
Curran, Hilary....1st Business
Dabbelt, Leo.....1st Business
Daley, Lawrence....1st High C
Daugherty, Paul.....4th High
Davis, Gerald.....1st High B
Deeds, Charles.....8th Grade A
Deger, Frank.....3d High A
Deger, Richard.....1st High C
Deis, Walter.....2d High A
Delzeith, Carl.....7th Grade
Dineen, Wm.....7th Grade
Devereux, Jas. E....1st High C
Dickensheet, Eug..8th Grade A
Dolan, Leo P.....2d & 3d High
Domanski, Edw...8th Grade B
Donohue, Joseph.....7th Grade
Donohue, Robert.....6th Grade
Donovan, Thos....8th Grade B
Dorger, Raymond..8th Grade A
Douglas, Stephen..Fresh. Arts
Duffy, Edward.....3d High B
Duffy, James.....1st Business
Dugan, Frank.....Senior Arts
Dunn, John.....8th Grade A
Dunne, Gerald E....Soph. Arts
Dutle, Nicholas.....7th Grade
Dwyer, Edward.....1st High B
Dwyer, James.....3d High A
Eckenrode, Robert..3d High B
Eckley, Wm.....6th Grade
Edmondson, Geo.....2d High B

Ehret, Clifford...Sen. Business
Eilerman, Robert....2d High A
Elardo, Frank.....1st High C
Emanuel, John E...1st High C
Emanuel, Victor.....4th High
Emley, Cleon.....1st High B
Erhart, Charles...8th Grade B
Eslinger, Warren H.2d High B
Evans, Joseph.....Soph. Arts
Farrell, Thomas.....4th High
Faulstick, Wm.....6th Grade
Feldman, Anthony...6th Grade
Ferrero, Demofilo....3d High A
Fillipowitz, Felix..8th Grade B
Finan, Joseph.....3d High A
Fischer, Ambrose....6th Grade
Fitzgerald, C. J....8th Grade A
Fitzmartin, Paul....1st High A
Fitzsimons, Walter..2d High A
Flanagan, Joseph..1st Grade B
Fleck, Charles.....8th Grade B
Fleck, Henry.....8th Grade A
Fleck, Vincent.....6th Grade
Flynn, Jos. J.....1st Grade A
Focke, V. A.....3d High B
Folger, Holloway....6th Grade
Forquer, Mark.....3d High A
Fournier, Walter....1st High C
Fox, Bernard J.....2d High B
Fullington, Walter...1st High C
Gabel, Wm.....6th Grade
Ganster, Earl.....3d High B
Garrison, Russell...Fresh. Eng.
Garrity, Frank.....Soph. Arts
Garry, John.....1st High B
Gaynor, Francis.....4th High
Genard, Alexis.....2d High B
Gilvary, Joseph.....1st High A
Goldcamp, Clarence..3d High A
Gottbrath, Joseph....6th Grade
Graeber, Arthur.....6th Grade
Graziani, Benjamin..6th Grade
Greig, Norman.....7th Grade
Grills, George.....1st High C
Gross, Norwood.....7th Grade
Grote, Richard.....2d High A
Grote, Walter.....8th Grade B
Grote, Wm.....8th Grade B
Guinan, George.....2d High A
Haag, Wm. L.....2d High A
Haas, Edwin J.....4th High
Hackman, Harry...1st Business
Hagan, Thomas....1st High A
Hahne, Forster...Sen. Business
Haile, Herbert.....4th High
Hall, James E.....Senior Eng.
Halter, Herbert.....4th High
Hamburger, Victor..2d High B
Hanley, Bernard...1st High B
Hanley, Robert.....3d High A
Hannahan, John.....3d High A
Hannegan, Mark...1st High B
Happensack, Edw...3d High A
Harshman, Samuel..2d High B
Hartshorn, Clement..3d High A
Harvey, Thomas.....3d High B
Hatfield, Daniel.....1st High B
Hause, Alvin.....7th Grade
Hayes, Ceelstine...Soph. Eng.
Heile, Marcellus.....2d High A
Helmig, Raymond..8th Grade A
Hennesey, Jas. E...8th Grade B
Hennesey, Wm....1st Business
Henricus, Ralph.....3d High B
Herbert, Victor.....1st High A
Hess, Elmer B.....4th High
Hess, Howard.....8th Grade B
Hickey, Robert....1st Business
Hickey, Wm.....1st Business
Hochwalt, Clarence.3d High A
Hochwalt, George...3d High A
Hochwalt, Justin....1st High C
Hochwalt, Norman.Fresh. Arts
Hodapp, Albert.....7th Grade
Holland, Carl.....3d High A
Holloway, Folger.....6th Grade
Holters, Joseph.....4th High
Hook, Francis.....2d High B
Hook, Herbert.....Soph. Eng.
Horan, Edward.....2d High A
Hosket, Henry.....8th Grade A
Hosket, Richard....8th Grade A
Houston, Jos. J....1st Business
Hugenard, J. V.....4th High
Hummert, Robert..Fresh. Eng.
Hutchings, Robert J.3d High B
Hutzel, Robert.....1st High B
Irr, Edwin J.....3d High B
Jacobs, Clement.....1st High C
Jamieson, Robert....3d High A
Johnston, Farrell.....7th Grade
Johnston, Wm.....6th Grade

Jonas, Joseph L.....6th Grade
Jones, Russell.....2d High B
Kegg, Frank.....2d High A
Kehoe, Thomas.....1st High A
Kehrle, Edward.....3d High A
Keller, Charles.....6th Grade
Kelly, Francis.....2d High A
Kenendy, Wm.....2d High B
Kenny, James.....3d High B
Kenyon, Albert.....1st High B
Kernan, Jos. E.....2d High B
Kersting, Alvin.....Fresh. Arts
Kessler, Emil H.....3d High B
Keyes, Julian.....7th Grade
Keyes, Wm. H.....4th High
Kienhoefer, Jos.....3d High A
Killoran, Wm. J.....Soph. Arts
Kimmel, Cornelius.1st Business
King, Harold.....1st Business
Kinstle, George....Fresh. Arts
Kirby, George.....1st High B
Kirk, Richard.....1st Business
Kissling, Lawrence...6th Grade
Kissling, Wm.....6th Grade
Kleinhenz, Leander..1st High C
Kleinhenz, Ray.....6th Grade
Kline, John.....Junior Eng.
Klin, Richard.....1st High C
Kohl, Aloys.....4th High
Kramer, Charles....2d High B
Kramer, Fred J.....1st High A
Kramer, Ralph.....2d High B
Kranz, Gerald.....1st High A
Kruer, Harry.....1st High B
Krusling, Albert....Soph. Eng.
Krusling, Otto.....Fresh. Eng.
Kuhn, Adrian.....2d High B
Kuhn, Joseph.....Fresh. Eng.
Kubkowski, Frank...3d High A
Kuntz, Edw. J.....3d High A
Laffy, Frank A.....3d High A
Last, Nicholas.....1st Business
Laughlin, Edward...1st High B
Lause, Charles.....2d High B
Lause, Eulogius....Fresh. Eng.
Lechleitner, Edw...Fresh. Arts
Ledger, John.....1st Business
Leonard, Joseph.....3d High A
Lienisch, Theo.....2d High A
Ligday, Francis.....3d High A
Liszak, George....8th Grade A
Long, Edward.....1st High B
Long, George.....1st High B
Louis, Walter B.....6th Grade
Lukey, Ernest.....3d High A
Lukey, Robert.....8th Grade A
Lynch, Willis.....4th High
Macke, Frank.....6th Grade
Mackmull, Matthew..7th Grade
Mahrt, Alphons....Junior Eng.
Mahrt, Armin.....1st High C
Mahrt, John.....1st High A
Maley, Edward.....1st High B
Maley, O'Keefe.....1st High A
Maley, Robert.....1st High A
Malloy, Wm. J.....1st High C
Maloney, Arthur J..1st High B
Maloney, Stephen...1st High A
Manning, James E..1st High A
Margolis, Arthur....3rd High B
Marshall, Roger....1st Business
Martin, Edward....Fresh. Eng.
Mason, Clarence.....2d High A
Mason, Leo.....2d High A
Massing, John W..1st Business
May, Alphonse.....1st High A
Mayerhoefer, Carl...2d High B
Mayl, Richard.....3d High B
McBaron, Louis.....7th Grade
McBride, Edward...2d High B
McCarey, Walter....1st High C
McCarthy, Daniel...3d High B
McCarthy, Eugene..1st High A
McCarthy, John.....2d High A
McCarthy, Theo.....6th Grade
McCloskey, James....7th Grade
McCrate, Charles.....4th High
McFadden, Leory..8th Grade B
McGreevey, H. T..1st Business
McIntosch, Louis...1st High A
McNamara, Thomas...4th High
McVeigh, James.....6th Grade
Meikenhous, Chas...1st High C
Menninger, Edward..Sen. Bus.
Menninger, Jos.....7th Grade
Menninger, Law...8th Grade B
Merkle, Victor.....2d High B
Meyer, James.....1st High B
Meyer, Wm.....4th High
Michniewicz, Anth...7th Grade
Miller, Albert.....2d High A
Miller, Earl.....4th High

Miller, Urban.....8th Grade A
Moeller, Alphonse..Senior Arts
Montanus, Law....Fresh. Arts
Moosbrugger, E...8th Grade B
Moosbrugger, Jos.....4th High
Moran, William.....2d High B
Morris, Joseph.....2d High A
Mueller, Joseph.....1st High A
Murphy, Joseph.....1st High C
Murphy, Virgil...Fresh. Letters
Muth, Richard.....1st High C
Muth, Albert.....7th Grade
Mylor, Bernard.....6th Grade
Myer, James.....1st Business
Narrance, Harry.....7th Grade
Neu, Robert.....6th Grade
Niehaus, Charles...1st High B
Niekamp, Clarence..1st High B
Noll, Leo.....1st High C
Nordhoff, Godfrey...1st High C
Nugent, Clarence....3d High B
Nushawg, Wm.....2d High A
Oberlander, John....Soph. Arts
O'Brien, Paul....Soph. Letters
Ochs, Arthur.....3d High B
O'Donnell, Martin....6th Grade
O'Connell, Maurice.1st Business
O'Hearn, Robert....2d High A
Ohmer, Paul.....4th High
O'Keefe, Clar....Sen. Business
Olberding, Paul.....4th High
Orth, Wilbur.....6th Grade
Ostendorf, Irwin....1st High B
Ostendorf, Ralph....1st High A
Ostrowski, Anthony..7th Grade
Oswald, Edward...1st High A
Ott, John.....3d High B
Pabst, John.....8th Grade B
Paulick, Louis.....4th High
Pauly, Victor.....3d High B
Payne, Robert.....1st High C
Petkewicz, Casimir...6th Grade
Piatt, Harold.....6th Grade
Poeppelmeier, Leo...7th Grade
Poeppelmeier, Ray..1st High A
Porter, Leslie.....Fresh. Eng.
Powers, Robert....1st Business
Punch, Richard.....2d High A
Rabbitt, Michael...1st Business
Rahe, Yvon.....6th Grade
Rau, Robert.....Sen. Business
Reith, Wm.....Soph. Arts
Richter, Edwin.....Fresh. Arts
Rieder, Joseph.....3d High A
Riedinger, Carl.....7th Grade
Riggs, Jack.....6th Grade
Rigney, George...Sen. Business
Riley, James.....1st High C
Riley, John.....1st High B
Riley, Paul.....1st High B
Rittel, John.....Sen. Business
Ritzert, Norman....1st High B
Roderer, Geo.....1st High A
Rogge, Herbert....8th Grade B
Romer, Adolph.....Soph. Arts
Rooney, Donald..Sen. Business
Ross, David.....8th Grade A
Rost, Henry.....8th Grade A
Roth, John .....Fresh. Eng.
Rotterman, Eugene..Soph. Eng.
Rotterman, Robert..1st High B
Rotterman, Walter...3d High B
Ryan, Carl.....Soph. Arts
Ryan, Francis.....2d High A
Sander, Edward....1st High C
Scales, Robert.....1st Business
Scanlon, Paul.....7th Grade
Schafer, Joseph.....4th High
Schell, Isidore.....3d High A
Schleinitz, Wm.....Soph. Arts
Schlichte, Edw....1st Business
Schlipf, Frank.....3d High A
Schmackers, Albert...4th High
Schmieg, George....1st High C
Schmidt, Elsworth...6th Grade
Schmidt, George....1st High A
Schmitt, Clarence....Sen. Arts
Schmitz, Wm.....1st High A
Schneider, Edward.8th Grade B
Schneider, Edw. R.8th Grade B
Schnorr, Edward.....4th High
Schroeder, Henry..8th Grade A
Schroer, Robert.....1st High C
Schrunder, Arnold.8th Grade A
Schrunder, Raoul.....7th Grade
Schubert, Carl.....8th Grade A
Schumacher, Adam...7th Grade
Schumacher, Amb...3d High A
Schunck, Owen.....4th High
Schwank, Carl.....1st High B
Schwartz, Herman...6th Grade
Sell, William.....1st High A

Seitters, George..Soph. Letters
Senefeld, Arnold....1st High B
Shalkham, Ray.....7th Grade
Shearer, Ward.....1st High B
Sherman, Frank...1st Business
Shouvlin, Ray.....3d High A
Shroyer, Arthur....1st High A
Sinclair, Albert.....1st High A
Sitterle, John....Sen. Business
Sitterle, Walter.....1st High C
Slattery, James....1st Business
Smith, Anthony.....2d High B
Smith, Clarence.....Soph. Eng.
Smith, Russell.....7th Grade
Snyder, Fred.....6th Grade
Sourd, Raphael.....Soph. Arts
Spatz, John.....6th Grade
Speyer, Albert.....1st High C
Spraley, Robert.....1st High C
Staab, Albert.....8th Grade B
Stahl, George.....7th Grade
Staley, Paul.....3d High A
Stanton, Paul.....Fresh. Eng.
Staub, Joseph.....2d High B
Staud, Edmund.....7th Grade
Stebel, Wm.....6th Grade
Steenrod, Court.....2d High A
Stelzer, Ivo.....2d High A
Stine, George.....1st High C
Strattner, Geo.....1st High C
Strattner, Law....Senior Eng.
Stroop, F. G.....4th High
Stuhlmiller, Clif....Fresh. Arts
Stuhlmiller, Edw...Fresh. Arts
Sugrue, Leo.....4th High
Sunshine, Thos....1st Business
Swain, Louis.....4th High
Swift, J. Leonard..Soph. Eng.
Swift, Paul.....Fresh. Eng.
Sweetman, Barry.....4th High
Synnett, Peter.....4th High
Synnett, Martin...Sen. Letters
Tague, Herman....Sen. Letters
Tepe, Bernard .....2d High B
Thimmes, Paul.....1st High B
Treiber, Edwin.....3d High B
Treiber, Chas.....1st High C
Torbeck, Victor...8th Grade B
Tullis, Earl.....8th Grade B
Ulrich, Louis.....8th Grade B
Underwood, Wm....3d High B
Unger, Aloys.....1st Business
Van Scoyk, F.....1st High C
Viel, Paul.....2d High B
Velotta, Tom.....2d High B
Voss, Edward.....4th High
Wagner, Alfred..Fresh. Letters
Wagner, George...1st Business
Wagner, Philip.....4th High
Walsh, Albert.....1st High C
Warren, Law.....4th High
Wassenich, Chas.....2d High B
Weber, Rufus.....2d High A
Weckesser, Alph....2d High A
Weckesser, Urban...2d High B
Weinert, Henry.....2d High A
Weinert, Victor....8th Grade B
Weis, Clifford.....8th Grade B
Wertz, Chester.....1st High A
Weser, Edmund...8th Grade A
Wess, Bernard.....1st High C
Westbrock, Ray...8th Grade A
Westendorf, Walter..2d High B
Whelan, Leonard.....6th Grade
Windbiel, Jos.....Soph. Eng.
Wintermyer, Paul.....4th High
Wirshing, Ralph...Junior Eng.
Wittman, Ludwig....7th Grade
Wolf, Herbert.....1st High A
Wollenhaupt, Ralph.Junior Eng
Wuerstel, Jos.....1st High A
Wunderlich, Orville.Senior Eng.
Wysong, Russell.....7th Grade
Yackley, Wilbur.....3d High A
Yamashiro, Clem...Junior Eng.
Yungerman, Clar...1st High A
Yox, Frank.....2d High A
Zimmerle, Ray....8th Grade A
Zimmerman, Carl.....Sen. Arts
Zimmerman, Arthur.Soph. Eng.
Zitkus, Frank.....1st High C
Zoeller, Harold.....6th Grade
Zofkie, Cletus.....1st High C

SOCIETIES

APOSTLESHIP OF PRAYER
in union with
THE LEAGUE OF THE SACRED HEART

The object of the Apostleship and League is to promote interest in the great movements of the times for the true welfare of mankind, by uniting prayers and good works with the intention of the Sacred Heart of Jesus. Devotions to the Sacred Heart are held on all the First Fridays. Membership is confined to the students who have received their first Holy Communion. Number of members, 500.

PROMOTERS

Non-Resident Students

Barlow, Vincent	Hochwalt, George	Lechleitner, Edw.
Boesch, Wm.	Hook, Francis	McCarthy, John
Breen, John	Kinstle, George	Keyes, Howard
Duffy, Edward	Kuhn, Joseph	Roth, John

Resident Students

Brunner, Carl	Evans, Joseph	Lynch, Willis
Culley, Francis	Gaynor, Francis	Reith, William
Dunne, Gerald	Heile, Marcellus	Rigney, George
Eilerman, Robert	Leonard, Joseph	Staab, Albert

SODALITY OF THE IMMACULATE CONCEPTION

The Sodality of the Immaculate Conception was established at the College in 1875. Its object is to foster in the hearts of the students a tender love for the Mother of God. The Sodality has special devotional exercises every Saturday. Number of members, 215.

St. Gregory's Branch

OFFICERS

Francis Dugan ..... *President*
Gerald Dunne ..... *Vice-President*
Clarence Schmitt ..... *Secretary*
Francis Culley ..... *Treasurer*
Edward Stuhlmueller ..... *Sacristan*
Herman Tague ..... *Librarian*
Francis Garrity ..... *Ass't Librarian*
Rev. Aloys Schratz, S. M. ..... *Moderator*

MEMBERS

Collins, Daniel
Cooney, Walter
Deger, Clarence
Finan, Joseph
Hannahan, John
Killoran, William
Kinstle, George
Lechleitner, Edw.
Leonard, Joseph
Moeller, Alphonse
Montanus, Law.
Oberlander, John
Richter, Edwin
Reith, Wm.
Romer, Adolph
Ryan, Carl
Sourd, Raphael
Schmackers, Albert
Synnett, Martin

Branch No. 1

OFFICERS

Joseph Evans.....*President*
Leo Sugrue .....*Vice-President*
Norman Hochwalt.....*Secretary*
Rev. Joseph Tetzlaff, S. M.....*Moderator*

MEMBERS

Adelberg, Louis
Berghoff, Walter
Clasgens, Cyril
Dolan, Leo
Douglas, Stephen
Haile, Herbert
Halters, Herbert
Happensack, Edw.
Holters, Joseph
Irr, Edwin
McCrate, Charles
Murphy, Virgil
Nugent, Clarence
O'Brien, Paul
Olberding, Paul
Porter, Leslie
Roth, John
Rooney, Donald
Schnorr, Edward
Schunck, Owen
Sherry, William
Sunshine, Thomas
Voss, Edward
Wintermeyer, Paul
Warren, Lawrence

Branch No. 2

OFFICERS

Edward Kuntz.....*President*
Rufus Weber.....*Vice-President*
Ray Shouvlin.....*Secretary*
Carroll Hochwalt.....*Treasurer*
Rev. Walter Tredtin, S. M.....*Moderator*

MEMBERS

Brennan, Edward
Boesch, William
Carroll, Thomas
Cobey, Joseph
Duffy, Edward
Dwyer, James
Eckenrode, Robert
Genard, Alexis
Hochwalt, George
Hugenard, Joseph
Houston, Joseph
Gaynor, Francis
Ledger, John
Lynch, Willis
Moosbrugger, Jos.
Pauly, Victor
Smith, Anthony
Swain, Louis
Synnett, Peter
Staley, Paul

Branch No. 3

Officers

Carl Mayerhoefer ..... *President*
Albert Staab ..... *Vice-President*
Herbert Abel ..... *Secretary*
Thomas Hagan ..... *Treasurer*
Rev. Francis Kunnecke, S. M. ..... *Moderator*

Members

Baczenas, Eugene
Carlton, Wm.
Carron, Jerome
Carron, Lester
Dineen, William
Dorger, Raymond
Elardo, Frank
Edmundson, Geo.
Fleck, Charles
Fleck, Henry
Fournier, Walter
Flynn, Joseph
Hochwalt, Justin
Jacobs, Clement
Kleinhenz, Leander
Kleinhenz, Ray.
Kranz, Gerald
Kehoe, Thomas
Klin, Richard
Kirk, Richard
Kennedy, Wm.
Lause, Charles
Kramer, Fred
Long, George
Marshall, Rogers
Massing, John
Manning, James
Maley, Keefe
May, Alphonse
Malloy, William
Meikenhaus, Chas.
Mueller, Joseph
Noll, Leo
Shearer, Ward
Schlichte, Edward
Speyer, Albert
Spraley, Robert
Strattner, Geo.
Schrunder, Arnold
Senefeld, Arnold
Wess, Bernard
Wolf, Herbert
Zofkie, Cletus
Kegg, William
McGary, Walter

Branch No. 4

Officers

Richard Muth ..... *President*
Mark Hannegan ..... *Vice-President*
Edwin Moosbrugger ..... *Secretary*
Alphonse Mueller, S. M. ..... *Moderator*

Members

Arvai, Joseph
Boggan, Roy
Brunner, Carl
Buerrer, Norman
Dabbelt, Leo
Donahue, Robert
Donahue, Joseph
Feldman, Anthony
Filipowitz, Felix
Flannegan, Joseph
Fleck, Vincent
Gable, Wiliam
Gottbrath, Joseph
Helmig, Raymond
Johnston, Wm.
Johnson, Farrell
Jonas, Joseph
Kissling, Lawrence
Kissling, Wm.
Macke, Frank
Mackmull, Gulden
McCarthy, Theo.
McVeigh, James
O'Donnell, Martin
Orth, Wilbur
Payne, Robert
Piatt, Harold
Poepplemeier, Leo
Rahe, Yvon
Riedinger, Carl
Schmidt, Elsworth
Schmidt, George
Schneider, Edward
Schroeder, Henry
Schwartz, Herman
Smith, Russel
Snyder, Edward
Spatz, John
Torbeck, Victor
Ulrich, Louis
Westbrock, Ray.
Zoeller, Harold
Zimmerle, Ray.

HOLY NAME SOCIETY

The Holy Name Society was organized amongst the students at the annual retreat, 1904. Its object is to prevent the use of profane and immodest language, and thus to promote the interests of the Holy Name of God.

The resident students are grouped by divisions, the non-resident students by classes. Branch meetings are held once a month, and the board of General Officers meets once a month. Number of members, 500.

GENERAL OFFICERS

Francis Dugan.....*President*
Carl Zimmerman.....*Vice-President*
William Sherry .....*Secretary*
Clarence Schmitt.....*Treasurer*
Ralph Wirshing.....*Librarian*
Rev. B. P. O'Reilly.....*Moderator*

BRANCH OFFICERS

Resident Officers

No.	*President*	*Vice-President*	*Treasurer*
1.	Dugan, Francis	Schmitt, Clarence	Porter, Leslie
2.	Haile, Herbert	Holters, Joseph	Sugrue, Leo
3	Hannahan, J.	Archer, Walter	Underwood, Wm.
4.	Menninger, E.	Houston, Joseph	Rabbitt, Michael
5.	Leonard, Jos.	Finan, Joseph	Staley, Paul
6.	Heile, Mar.	Weber, Rufus	Busch, Ralph
7.	Mayerhoefer, C.	Moran, Wm.	Baumann, Leo
8.	Sitterle, W.	Senefeld, Arnold	Kranz, Gerald
9.	Grote, Wm.	Kleinhenz, Ray.	Dorger, Raymond
10.	Brunner, Carl	Slattery, James	Schmidt, George

Non-Resident Officers

No.	*President*	*Vice-President*	*Treasurer*
1.	Wirshing, R.	Synnett, Martin	Sherry, Wm.
2.	Schaefer, Jos.	Hahne, Forster	Ohmer, Paul
3.	Collins, Daniel	Kuntz, Edward	Brennan, Wm.
4.	Hook, Francis	Weckesser, Alph.	Lienesch, Theo.
5.	Schmieg, Geo.	Payne, Robert	McGarry, Walter
6.	Breen, John	Ostendorf, Irvin	Maley, Edward
7.	Gilvary, Jos.	Maley, Robert	Hagan, Thomas
8.	Schroeder, H.	Helmig, Raymond	Weser, Edmund
9.	McCloskey, J.	Mackmull, Matthew	Wittman, Louis
10.	Jonas, Joseph	Whelan, Leonard	Eckley, Wm.

ST. JOHN BERCHMANS ACOLYTHICAL SOCIETY

Francis Dugan.....*President*
Frank Garrity.....*Vice-President*
William Killoran.....*Secretary and Treasurer*

Members

Berghoff, W.
Brissel, V.
Boggan, R.
Brunner, C.
Buerrer, N.
Carlton, W.
Clancy, J.
Cooney, W.
Culley, F.
Dineen, W.
Dolan, L.
Edmondson, G.
Finan, J.
Fischer, A.
Flanagan, J.
Fournier, W.
Genard, A.
Gottbrath, J.
Halter, H.
Hamburger, V.
Hannegan, M.
Hannahan, J.
Houston, J.
Kehoe, T.
Krusling, O.
Lause, C.
Leonard, J.
Lynch, W.
Macke, F.
McCarthy, T.
Menninger, J.
Meyerhoefer, C.
Montanus, L.
Muth, R.
Nugent, C.
O'Brien, P.
Oberlander, J.
Pabst, J.
Payne, R.
Piatt, H.
Rahe, Y.
Richter, E.
Riedinger, C.
Romer, A.
Schmackers, J.
Schmidt, G.
Schmitt, C.
Staley, P.
Stuhlmueller, E.
Tague, H.
Weber, R.
Windbiel, J.
Zofkie, C.

THE S. M. C. EXPONENT

The Exponent, a monthly magazine, edited and published by the undergraduates, is the literary, social and athletic organ of the student body. As its name indicates, The Exponent is an index of student life at St. Mary College in all its varied phases. Each month's issue contains representative work of the pupils in the departments of philosophic, scientific and literary study in which their mental activity is exercised; and a detailed chronicle of the events of college life, together with live news of alumni and athletic prowess, all prove of special interest to a wide circle of parents, relatives, alumni and friends of the college. The Exponent carries practically every live merchant and manufacturer as advertisers in its pages, and appears to be a good medium of advertising for Dayton business men, as well as manufacturers out of town.

Editorial Staff

Editor-in-Chief.....Carl J. Ryan, '16
Assistant Editor-in-Chief.... .. .... { Gerald E. Dunne, '16 / George Seitters, '16

Assistant Editors

John Kline, '16
Edward Stuhlmueller, '16
Raphael Sourd, '16
Joseph Evans, '16

LYCEUM LECTURE COURSE

S. M. C. Hall

For the past six years St. Mary College has offered attractive lecture courses to the student body and to the people of Dayton. The courses have been attended by practically the entire student body and a large number of Dayton people. These lecture courses have brought to Dayton entertaining and instructive lecturers.

Joseph O'Meara ....*In "The House Next Door"*
Tuesday, November 3, 1914

Dr. W. T. Sherman Culp .... *In "Uncrowned Kings"*
Wednesday, November 11, 1914

Arthur E. Gringle .....*In "How to Cure the Blues"*
Monday, December 7, 1914

Robley Male Quartette ..... *In "An Evening of Harmony"*
Thursday, January 7, 1915

C. E. W. Griffith. .*In "An Evening of Shakespearean Comedy"*
Monday, January 11, 1915

Thomas Elmore Lucey..... .....*In "Impersonations"*
Monday, February 1, 1915

Francis J. Gable ....*In "Laughilosophy"*
Monday, February 15, 1915

Dr. James Hedley.....*In "Sunny Side of Life"*
Monday, March 8, 1915

S. M. C. DRAMATIC ASSOCIATION

The S. M. C. Dramatic Association fosters and cultivates a taste for elocution, oratory and the drama. Under its auspices dramatic entertainments are given, and elocutional and oratorical contests are held.

"The Upstart," Presented by St. Mary College Dramatic Club

Sunday Eve., Nov. 22 and Monday Eve., Nov. 23, 1914

PROGRAM

1. Two Step *"Cedric"*.....Weidt
2. *"Polka des Clowns"* ....Allier

ACT I.
Parlor at Mr. Jordan's

3. One Step *"Paprikana"* .....Friedman

ACT II.
Scene 1.—Jordan's Dressing Room
Scene 2. —An Entrance Hall

4. Valse Hesitation *"Merry Madness"* ... ... .Allen

ACT III.
Scene 1.—A Garden at Jordan's

5. Intermezzo*"On Desert Sands"*.....Allen

Scene 2.—A Banquet Hall

6. Descriptive March *"Got 'em"* ..... Allen

Scene 3.—A Garden at Jordan's
Scene 4.—A Garden at Jordan's

7. Finale *"At the Wedding"* ..... Young
Music by the S. M. C. Student Orchestra

THE CAST OF CHARACTERS

Mr. Jordan, ambitious to associate with persons of distinction ..... *R. Weber*
Old Mr. Jordan, his venerable uncle ..... *F. Garrity*
Cleon, suitor for the hand of Lucilia, daughter of old Mr. Jordan ..... *D. Collins*
Covielle, his roguish valet ..... *L. Dolan*
Dorimenes, the marquis ..... *V. Emanuel*
Doranto, a count in reduced circumstances ..... *R. Wirshing*
Nicholas, a faithful but saucy servant ..... *J. Evans*
Professor of Philosophy ..... *V. Murphy*
Professor of Music ..... *J. Leonard*
Professor of Dancing ..... *E. Montanus*
Professor of Fencing ..... *F. Ligday*
Footmen ..... *J. Hanahan*, *J. Oberlander*
Mufti ..... *W. Schleinitz*
Dervishes ..... *J. Sitterle*, *M. Alston*
Turks ..... *J. Holters*, *J. Houston*
Tailor ..... *C. Ryan*
Apprentices ..... *R. Sourd*, *J. Kuhn*, *R. Eckenrode*
Music Pupils and Dancers ..... *Th. McCarthy*, *J. Jonas*, *J. Keyes*, *E. Weser*

The C. E. W. Griffith Gold Medal Elocution Contest

December 18, 1914

1. *"Drifting Out to Sea"* ..... Adrian Kuhn
2. *"The Last Word"* ..... Charles Lause
3. *"Cassius to Brutus"* ..... Herbert Abel
4. *"Faust Last Speech on Earth"* ..... Leo Dolan
5. *"The Level Crossing"* ..... Thomas Sunshine
6. *"Soliloquy of Arnold"* ..... Charles Wassenich
7. *"The Moor's Revenge"* ..... Thomas Carroll
8. *"The Spanish Mother"* ..... Rufus Weber

Judges: Clarence J. Stocklein, '06; Charles W. Whalen, '07; Rev. Lawrence Yeske, S. M., '02

The Annual Contest for the Rev. Otto B. Auer Elocution Prizes, $15, $10 and $5 in Gold

February 7, 1915

1. *"The Tell-Tale Heart"* ..... E. Happensack
2. *"Two Souls with but a Single Thought"* ..... J. Holters
3. *"Sheltered"* ..... E. Miller
4. *"Swing Low Sweet Chariot"* ..... W. Cooney

INTERMISSION

5. *"King Robert of Sicily"* ..... R. Eckenrode
6. *"Dunga Din"* ..... E. Irr
7. *"The Old Actor's Story"* ..... L. Montanus
8. *"His Visit to the Old Home"* ..... D. Collins

Judges { Joseph J. Abel, '93
Joseph Cronin, '05
David Kersting, '05 }

"Harold," Presented by S. M. C. Dramatic Club

Sunday Evening, April 18 and Tuesday Evening, April 19, 1915

PROGRAM

1. March *"Inspection"* ..... Hersom

ACT I.

Scene 1.—A Hall in the Palace.
Scene 2.—Room in the Palace.
Scene 3.—Royal Hall.
Scene 4.—Room in the Palace.

2. March *"Special Delivery"* ..... Friedrich

ACT II.

Scene 1.—A Hall in the Palace.
Scene 2.—Royal Hall.
Scene 3.—Room in Ghent's Northern Castle.
Scene 4.—Roland's Camp.
Scene 5.—Royal Hall.

3. March *"Warrior's Return"* ..... Neuman

ACT III.

Scene 1.—A Street in the Royal City.
Scene 2.—Camp; Roland's Tent.
Scene 3.—Royal Hall.
Scene 4.—A Hall in the Palace.
Scene 5.—A Street in the Royal City.

4. March *"With Fife and Drum"* ..... Hildreth

ACT IV.

Scene 1.—A Field.
Scene 2.—Outside Ghent's Castle.
Scene 3.—Room in Ghent's Castle.
Scene 4.—Outside the Prisoner's Room.

5. March *"Surrender"* ..... Winter

ACT. V.

Scene 1.—Roland's Tent.
Scene 2.—A Field.
Scene 3.—Roland's Tent.
Scene 4.—A Field.

6. March *"Step Lively"* ..... Allen

Music by S. M. C. Orchestra

THE CAST

Harold, King of Britain ..... *F. Garrity*
Roland, Heir to the Throne ..... *J. Holters*
Ghent, Lord of the Realm ..... *R. Wirsching*
Edward, Friend of Roland ..... *D. Collins*
Alfred, Son of Roland ..... *H. Abel*
Robert, Grandson of Ghent ..... *C. Lause*
Egmont, Mayor of Royal City ..... *W. Schleinitz*
Lord Chamberlain ..... *V. Emanuel*
Terrold, Captain of Guards ..... *F. Ligday*
Salisbury, Courtier ..... *E. Miller*
Morton, Captain ..... *P. Olberding*
Edmund, Captain ..... *E. Irr*
Motley, Jester ..... *R. Weber*
Ralph, Keeper of Prison ..... *J. Evans*
Alcor, Boy at Arms to Roland ..... *R. Sourd*
Servants ..... *E. Montanus*, *J. Hannahan*
Citizens ..... *J. Cooney*, *J. Leonard*, *F. Stroop*
Murderers ..... *E. Happensack*, *R. Eckenrode*
Soldiers ..... *P. Wintermeyer*, *L. Dolan*, *T. Carroll*, *A. Genard*, *J. Houston*
Pages ..... *E. Weser*, *J. Keyes*

Costumes furnished by F. Szwirschina, 1110 Vine St.

The Third Annual Contest for the Dr. D. G. Reilly Prizes in Oratory

$30—$20—$10 in Gold

Sunday, May 9, 1915, 8:00 P. M.

PROGRAM

Idyll—*"The Mill in the Forest"* ..... Eilenberg

Oration—*"Arbitration"*
George R. Kinstle, '17

Oration—*"America as a World Power"*
George F. Seitters, '16

Xylophone Solo—*"Wood and Straw"* ..... Ringleben

Oration—*"So-Called Patriots"*
Raphael A. Sourd, '16

Oration—*"A Greater St. Mary's"*
Francis T. Culley, '15

Xylophone Solo—*"Champagne Polka"* ..... Ehrke

Oration—*"The Small College"*
Joseph W. Evans, '16

Oration—*"The World Dictator"*
Carl J. Ryan, '16

Violin Solo—*"Polonaise"* ..... Seybold
"Spanish Dance" ..... Rehfeld

INTERMISSION

Characteristique—*"The Village Blacksmith"*
De Carmont-Roberts

Spooks, *"A Midnight Chase"* ..... Alford

Decision of Judges ..... { Rev. Wm. D. Hickey, Hon. Roland W. Baggott, E. G. Burkam }

March—*"The Show Boy"* ..... Huff

Music by S. M. C. Orchestra

THE POE LITERARY CIRCLE

Second High-A

OFFICERS

Rufus Weber ..... *President*
Frank Yox ..... *Vice-President*
Ivo Stelzer ..... *Secretary*
Richard Grote ..... *Treasurer*

MEMBERS

Boesch, Edward	Cetinski, Colman	Dolan, Leo
Brunner, Charles	Deis, Walter	Edmondson, Geo.

Eilerman, Robert
Genard, Alexis
Haag, William
Heile, Marcellus
Horan, Edward
Lienisch, Theo.
Mason, Eugene
Miller, Albert
O'Hearn, Robert
Punch, Richard
Weckesser, Alphons
Weinert, Henry
Nuschawg, Wm.
Steenrod, Court
Kegg, Frank
Ryan, Francis

THE LONGFELLOW LITERARY CIRCLE

Second High-B

OFFICERS

Francis Hook ..... *President*
John McCarthy ..... *Secretary*
Ralph Busch ..... *Class Historian*
Samuel Harshman ..... *Treasurer*

MEMBERS

Bailey, Carl
Burrows, David
Carroll, Thomas
Eslinger, Warren
Fitzimons, Walter
Fox, Bernard
Hamburger, Victor
Jones, Russell
Kennedy, Wm.
Kernan, Joseph
Kramer, Ralph
Kuhn, Adrian
Lause, Charles
Mayerhoefer, Carl
McBride, Edward
Merkle, Victor
Morris, Joseph
Smith, Anthony
Staub, Joseph
Tepe, Bernard
Viel, Paul
Wassenich, Chas.
Weckesser, Urban
Westendorf, Walter

THE BROWNSON LITERARY CIRCLE

OFFICERS

Daniel Collins ..... *President*
John Hannahan ..... *Vice-President*
Joseph Leonard ..... *Secretary*
Joseph Finan ..... *Treasurer*
Roberts Jamieson ..... *Historian*

MEMBERS

Archer, Walter
Cahill, Matthew
Deger, Clarence
Dwyer, James
Goldcamp, Clarence
Happensack, Edw.
Hochwalt, Carroll
Hochwalt, George
Holland, Carl
Kehrle, Edwin
Kienhoefer, Jos.
Kuntz, Edward
Laffey, Frank
Ligday, Francis
Schumacher, A.
Staley, Paul
Yackley, Wilbur
Boesch, Wm.
Forquer, Mark
Carey, Leo

S. M. C. ORCHESTRA

Louis Vogt, S. M., *Director*

The Music Department of the College is intended primarily to accommodate those who wish to pursue the study of music for its cultural advantages and as a refined accomplishment.

The students of the Department of Music are encouraged to acquire the proficiency requisite for membership in the Student Orchestra, S. M. C. Orchestra, and S. M. C. Band. These musical organizations give recitals and concerts in the course of the year and furnish the music at all dramatic and athletic events. They have been well received for years and have earned the continued favor of large audiences by their exceptional rendition of classical as well as popular programs.

S. M. C. CHOIR

Voice culture is fostered in all departments of the College. Sight singing is taught to the younger students who are encouraged to become members of the S. M. C. Choir of select voices. Students of the Collegiate Department are eligible to membership in the S. M. C. Glee Club, a popular organization among the young men of the College.

Music Recital Given at the College Hall

Sunday Evening, March Fourteenth

PROGRAM

March—*"On the Wing"* ..... Wheeler
Played by the combined Beginners and Student Orchestras

Piano—Novelette *"Lotus Petals"* ..... Meredith
Thomas Kahoe

Violin—Fantasia *"The Old Oaken Bucket"* ..... Saenger
Albert Hodapp

Piano—*"In Poppyland"* ..... Albers
Alexis J. Genard

Violin—Mazurka *"In the Alps"* ..... Logan
Raymond Westbrock

Piano—Fantasie Brillante *"Martha"* ..... Smith
Cletus Zofkie

Violin Ensemble—Waltz *"Gliding Along"* ..... Greenwald

Violin—*"Ballet Music"* ..... Dancla
Robert Schroer

Violin—*"Swing Waltz"* ..... Lewis
Louis Wittmann

Violin—*"Caprice Gavotte"* ..... Fischel
"Kuiawiak" ..... Wieniawski
Hermann Wittmann

Violin Duet—*"Graduation March"* ..... Greenwald
Louis and Hermann Wittmann

PART SECOND

Waltz—*"Pauline"* ..... Allen
Student Orchestra

Piano—*"In the Moonlight"* ..... Bubna
"From the Long Ago" ..... Andrus
Louis Swain

Clarinet—*"Serenade"* ..... Fleissner
Clarence Goldcamp

Violin—*Concerto No. 1* ..... Seitz
Edwin Moosbrugger

Piano—*"Hungarian Rapsodie Mignonne"* ..... Koelling
"Polish Dance" ..... Scharwenka
Thomas Sunshine

Violin—*"Sixth Air Varie"* ..... De Beriot
Joseph Moosbrugger

Xylophone—Intermezzo *"Klythia"* ..... Bennett
Louis Swain

March—*"Boccaccio"* ..... Suppe
Student Orchestra

Accompanist, Mr. Frank Dugan

S. M. C. ATHLETIC ASSOCIATION

FOOTBALL BASEBALL BASKET-BALL
TRACK FIELD TENNIS

Football, basket-ball, baseball, track, field and tennis are fostered without interfering with the class standing of the students. Athletics there does its part in completing the physical development of the young man, and gives the necessary distraction to break up the otherwise monotonous run of college life.

Five spacious campuses accommodate the entire student body. A quarter-mile cinder path makes possible the development of track work, as well as the scheduling of meets in Dayton. Four large club rooms equipped with light gymnastic apparatus, basket-ball courts, bowling alleys, billiard and pool tables and a variety of games adapted to the age of the students, offer unsurpassed facilities to entertain the student body during inclement weather and during the winter season when outdoor exercises and sports are impossible. The basket-ball court in the gymnasium for the intercollegiate games of the Varsity and Academy Teams is one of the largest in the State.

Coaches are in charge of the different departments of athletics. By the interest they have stimulated these past years, St. Mary has met and defeated the best teams in the State.

In addition to the athletic events controlled by the Athletic Association, a systematic course in physical training and military drill is given by an experienced physical director, Professor Emil Hocke. The course comprises hygienic, corrective, recreative and competitive work. *See Bulletin, Page 59.*

OFFICERS

Carl Zimmerman ..... *President*
Francis Garrity ..... *Vice-President*
Carl Ryan ..... *Secretary*
Francis Dugan ..... *Business Manager*
Frederick G. Paff, S. M. ..... *Moderator*

MEMBERS

Adelberg, Louis
Anderson, Mark
Alge, Edwin
Alston, Mark
Archer, Walter
Barlow, Vincent
Berghoff, Walter
Brennan, George
Breig, Ivo
Broadstone, Ray
Busch, Edwin
Busch, Ralph
Carey, Leo
Clasgens, Cyril
Clancy, John
Collins, Dan
Conway, Wm.
Cooney, Walter
Culley, Frank
Daugherty, Paul
Dolan, Leo
Douglas, Stephen
Dunne, Gerald
Evans, Joseph
Farrell, Thomas
Finan, Joseph
Forquer, Mark
Gaynor, Frank
Genard, Alexis
Haas, Edwin
Hahne, Forster
Haile, Herbert
Halter, Herbert
Hanley, Bernard
Hannahan, John
Happensack, Edw.
Hochwalt, Norman
Holters, Joseph
Houston, Joseph
Huguenard, Joseph
Hummert, Robert
Irr, Edward
Kessler, Emil
Keyes, Howard
Killoran, Wm.
Kimmel, Cornelius
Kinstle, George
Krusling, Albert
Krusling, Otto
Kuntz, Edward
Laffy, Frank
Last, Nicholas
Lause, Eulogius
Lechleitner, Edw.
Leonard, Joseph
Ligday, Frank
Long, George
McCarthy, Eugene
McCrate, Charles
McNamara, Thos.
Miller, Earl
Moeller, Alphons
Montanus, Law.
Murphy, Virgil
Nugent, Clarence
Oberlander, John
O'Brien, Paul
O'Connell, Maurice
O'Keefe, Clarence
Olberding, Paul
Porter, Leslie
Reith, William
Richter, Edward
Rigney, George
Romer, Adolph
Rooney, Donald
Roth, John
Ryan, Frank
Scales, Robert
Schaefer, Joseph
Schleinitz, Wm.
Schmackers, Albert
Schmitt, Clarence
Schnorr, Edward
Schunck, Owen
Sherry, Wm.
Shouvlin, Ray
Smith, Anthony
Sourd, Raphael
Stanton, Paul
Stroop, Frederick
Stuhmueller, Edw.
Sugrue, Leo
Sunshine, Thomas
Swain, Louis
Synnett, Martin
Tague, Herman
Treiber, Edwin
Underwood, Wm.
Unger, Aloysius
Voss, Edward
Wagner, Albert
Wagner, George
Wagner, Philip
Warren, Lawrence
Weber, Rufus
Windbiel, Joseph
Wintermeyer, Paul
Wirshing, Ralph
Wunderlich, Orville
Yamashiro, Clement

S. M. C. ALUMNI ASSOCIATION OFFICERS

President—Dr. A. J. Moorman, '00.
Vice-President—Rev. Charles A. Ertel, '05.
Executive Secretary—Harry F. Finke, '02.
Financial Secretary—Francis C. Canny, '09.
Corresponding Secretary—J. Clarence Hochwalt, '06.
Treasurer—Harry F. Cappel, '98.

Board of Governors

Term Expires June, 1917

Carl Cappel, '03.
J. Clarence Hochwalt, '06.
Francis C. Canny, '09.
Harry C. Busch, '96.
Matt. N. Blumenthal, '97.
Rev. Aloys C. Angel, '04.

Term Expires June, 1916

Frank J. McCormick, Jr., '88.
Richard P. Burkhardt, '92.
Harry F. Cappel, '98.
Rev. F. Jos. Kelly, '90.
Thos. F. Coughlin, '93.
John F. Maher, '96.

Term Expires June, 1915

Dr. Albert J. Moorman, '00.
Louis Moosbrugger, '00.
Harry F. Finke, '02.
Dr. James A. Averdick, '01.
Alphonse J. Pater, '04.
Rev. Charles C. Ertel, '05.

CHICAGO CHAPTER

Pres.—Edw. C. Schoen, '02.
Sec.—Paul Wenigman, 07.
Vice-Pres.—J. Burgmeier, '02.
Treas.—Joseph Windbiel, '92.

CINCINNATI CHAPTER

Pres.—H. J. Robben, '69.
Sec.-Treas.—H. C. Busch, '96.

Board of Governors

J. J. Robben, '69
Chas. B. Wittrock, '77.
Harry C. Busch, '96.
Fred Topmoeller, '07.
August Janszen, '10.
Louis Homan, '75.
Hugh L. Conway, '91.
Henry G. Janszen, '04.
B. W. Freeman, '08.
Leonard Heile, '12.

COLUMBUS CHAPTER

Pres.—E. F. Dorgan, '76.
Sec.—John W. Keegan, '94.
Vice-Pres.—T. Macklin, '12.
Treas.—C. H. Dietrich, '83.

The Sixty-fifth Annual Commencement

Tuesday, June 15, 1915

March—"*World Peace*" ..... Zamecnik

March—"*Rakoczy*" ..... Liszt

"*America*" ..... Smith

Audience and Orchestra

Salutatory—Clarence J. Schmitt, '15

Valse "*A la bien-aimée*"—Op. 59 No. 2 ..... Schutt-Roberts

Address—President John Louis Shearer, Institute of Applied Arts, Ohio Mechanics' Institute, Cincinnati, Ohio.

"*Polish Dance*"—Op. 3 No. 1 ..... Scharwenka

AWARDING OF MEDALS AND HONORS
(High School, Business and Elementary Dept.)

Xylophone Solo—"*Wood and Straw*" ..... Ringleben

Mr. Louis Swain and Orchestra

AWARDING OF MEDALS AND HONORS
(Collegiate Department)

"*Drumology*" ..... Alford

Mr. Louis Swain and Orchestra

Presentation of Diplomas

CONFERRING OF DEGREES

S. M. C. March ..... Lurz

Audience and Orchestra

Valedictory—Francis T. Culley, '15

March—"*Cincinnatus*" ..... Vander Cook

Music furnished by S. M. C. Orchestra

LIST OF GRADUATES

COLLEGIATE DEPARTMENT

COLLEGE OF ARTS AND LETTERS

CULLY, FRANCIS T.
DUGAN, FRANCIS X.
MOELLER, ALPHONSE A.
SCHMITT, CLARENCE J.
SYNNETT, MARTIN C.
TAGUE, HERMAN J.
METZ, AUGUST

COLLEGE OF ENGINEERING

ANDERSON, LEON E.
HALL, JAMES E.
STRATTNER, LAWRENCE W.
WUNDERLICH, ORVILLE
YAMASHIRO, CLEMENT Y.

HIGH SCHOOL DEPARTMENT

OHMER, PAUL
SCHAEFER, JOSEPH
STROOP, FREDERICK G.
MILLER, EARL
KEYES, HOWARD
PAULICK, LOUIS
SYNNETT, PETER
EMANUEL, VICTOR
WARREN, LAWRENCE
HAILE, HERBERT
HOLTERS, JOSEPH
DAUGHERTY, PAUL
SCHNORR, EDWARD
BERGHOFF, WALTER
GAYNOR, FRANCIS
KOHL, ALOYSIUS
BROADSTONE, RAYMOND
SUGRUE, LEO
ADELBERG, LOUIS
HAAS, EDWIN
HESS, ELMER
BAILEY, JESSE K.
LYNCH, DANIEL
OLBERDING, PAUL
WINTERMEYER, PAUL
MOOSBRUGGER, JOSEPH
SWEETMAN, BARRY
BARLOW, VINCENT
HALTER, HERBERT
SCHUNK, OWEN
CLASGENS, CYRIL
COONEY, WALTER
HANLEY, BERNARD
FARREL, THOMAS
McCRATE, CHARLES
MEYER, WILLIAM
HUGUENARD, JOSEPH
SWAIN, LOUIS
WAGNER, PHILIP
AGNEW, WALTER
SCHMACKERS, ALBERT
VOSS, EDWARD
CRAWFORD, SPRINGER
HAGAN, MILES

BUSINESS DEPARTMENT

MENNINGER, EDWARD J.
RAU, ROBERT E.
BURKHARDT, ALVIN G.
EHRET, CLIFFORD P.
O'KEEFE, CLARENCE B.
HAHNE, C. FORSTER
RIGNEY, GEORGE E.
SITTERLE, JOHN J.

DEGREES

A Degree of Bachelor of Electrical Engineering
Awarded to
CLEMENT Y. YAMASHIRO, OF HONOLULU, HAWAIIAN ISLANDS
with the mention of "Summa cum laude"

A Degree of Bachelor of Chemical Engineering
Awarded to
LAWRENCE W. STRATTNER, OF DAYTON, OHIO
with the mention of "Summa cum laude"

A Degree of Bachelor of Electrical Engineering
Awarded to
JAMES E. HALL, OF DAYTON, OHIO
with the mention of "Magna cum laude"

A Degree of Bachelor of Chemical Engineering
Awarded to
LEON E. ANDERSON, OF DAYTON, OHIO
with the mention of "Magna cum laude"

A Degree of Bachelor of Electrical Engineering
Awarded to
ORVILLE WUNDERLICH, OF DAYTON, OHIO
with the mention of "Magna cum laude"

The Degree of Bachelor of Arts
Awarded to
CLARENCE J. SCHMITT, OF SIDNEY, OHIO
with the mention of "Magna cum laude"

The Degree of Bachelor of Arts
Awarded to
ALPHONSE A. MOELLER, OF DAYTON, OHIO
with the mention of "Magna cum laude"

The Degree of Bachelor of Letters
Awarded to
FRANCIS T. CULLEY, OF URBANA, OHIO
with the mention of "Magna cum laude"

The Degree of Bachelor of Arts
Awarded to
FRANCIS X. DUGAN, OF URBANA, OHIO
with the mention of "Magna cum laude"

The Degree of Bachelor of Letters
Awarded to
HERMAN J. TAGUE, OF CROOKSVILLE, OHIO
with the mention of "Magna cum laude"

A Diploma of Graduation
Awarded to
MARTIN C. SYNNETT, OF DAYTON, OHIO

The Degree of Bachelor of Arts
Awarded to
JOHN B. KONEN, OF BROOKLYN, NEW YORK
with the mention of "Summa cum laude"

The Degree of Bachelor of Arts
Awarded to
JULIUS A. FALK, OF COLUMBUS, OHIO
with the mention of "Magna cum laude"

GOLD MEDALS

COLLEGIATE DEPARTMENT

The Gold Medal for Excellence in Chemistry and Mathematic Studies
Awarded to
JOSEPH KUHN, DAYTON, OHIO

The Gold Medal in Memory of George A. Pflaum, for Excellence in English Studies in the Freshman Arts and Letters Class
Awarded to
GEORGE R. KINSTLE, DAYTON, OHIO

The Thomas J. Coughlin Medal for Excellence in Mathematics and Physics in the Sophomore Engineering Class
Awarded to
JOSEPH WINDBIEL, CHICAGO, ILL.

The Gold Medal for Excellence in Latin Studies in the Sophomore Arts and Letters Class, Donated by Rev. Daniel A. Buckley, of Springfield, Ohio
Awarded to
RAPHAEL A. SOURD, FAYETTEVILLE, OHIO

The Rev. Charles Polichek Prize of $15 in Gold for General Excellence in the Junior Engineering Class
Awarded to
ARTHUR ZIMMERMAN, DAYTON, OHIO

The Rev. Charles Polichek Philosophy Prize of $20 in Gold
Awarded to
CLARENCE J. SCHMITT, SIDNEY, OHIO

The Rev. Charles Polichek Philosophy Prize of $10 in Gold
Awarded to
FRANCIS X. DUGAN, URBANA, OHIO

The Bernard M. Focke, Jr., Prize of $20 in Gold for General Excellence in the Senior Electrical Engineering Class
Awarded to
CLEMENT YAMASHIRO, HONOLULU, HAWAIIAN ISLANDS

The Rev. Charles Polichek Prize of $20 in Gold for General Excellence in the Senior Chemical Engineering Class
Awarded to
LAWRENCE STRATTNER, DAYTON, OHIO

The Gold Medal for Excellence in Christian Doctrine, in the Collegiate Classes
Donated by William H. Holters, of Covington, Ky.
Awarded to
LAWRENCE V. MONTANUS, SIDNEY, OHIO

The Rev. Charles Polichek Medal, for Excellence in History, in the Arts and Letters Classes
Awarded to
FRANCIS T. CULLEY, URBANA, OHIO

The Rev. F. Joseph Kelly Theodicy Medal
Awarded to
CLARENCE J. SCHMITT, SIDNEY, OHIO

Gold Medal for Excellence in Conduct During their Entire College Career
Awarded to
FRANCIS T. CULLEY, URBANA, OHIO
CLARENCE J. SCHMITT, SIDNEY, OHIO
HERMAN J. TAGUE, CROOKSVILLE, OHIO
CLEMENT Y. YAMASHIRO, HONOLULU, HAWAIIAN ISLANDS

The Chicago Alumni Athletic Medal
Awarded to
WILLIAM F. SHERRY, DAYTON, OHIO

The Rudolph Wurlitzer Medal for Excellence in Piano
Awarded to
FRANCIS X. DUGAN, URBANA, OHIO

The Harry C. Busch Excellence Prize of $20 in Gold for Latin, Greek, English and History Studies Pursued During the Entire Collegiate Course

Awarded to

FRANCIS X. DUGAN, URBANA, OHIO

The Rev. Bernard J. Kuhlman Prize of $25 in Gold for American History

Awarded to

EDWARD P. STUHLMUELLER, HAMILTON, OHIO

The John C. Shea Sociology Prize, $15 in Gold, in Memory of His Mother, Catherine Shea

Awarded to

EDWARD P. STUHLMUELLER, HAMILTON, OHIO

The John C. Shea Sociology Prize of $5 in Gold

Awarded to

CARL J. RYAN, DAYTON, OHIO

The John C. Shea Sociology Prize of $5 in Gold

Awarded to

CLARENCE J. SCHMITT, SIDNEY, OHIO

The Rev. Otto B. Auer Elocution Prize of $10 in Gold

Awarded to

WALTER M. COONEY, LIMA, OHIO

The Rev. Otto B. Auer Elocution Prize of $5 in Gold

Awarded to

LAWRENCE V. MONTANUS, SIDNEY, OHIO

The Dr. D. G. Reilly Oratory Prize of $30 in Gold

Awarded to

RAPHAEL A. SOURD, FAYETTEVILLE, OHIO

The Dr. D. G. Reilly Oratory Prize of $20 in Gold

Awarded to

GEORGE F. SEITTERS, DAYTON, OHIO

The Dr. D. G. Reilly Oratory Prize of $10 in Gold

Awarded to

JOSEPH W. EVANS, FAYETTEVILLE, OHIO

The Alumni Diamond Medal for Excellence in Literary Studies and in Contributing Articles to the Exponent, The Official College Magazine

Awarded to

FRANCIS T. CULLEY, URBANA, OHIO

HIGH SCHOOL DEPARTMENT

The Rev. Otto B. Auer Elocution Prize of $15 in Gold

Awarded to

ROBERT ECKENRODE, DAYTON, OHIO

The Rev. Bernard J. Kuhlman Prize of $5 in Gold For American History

Awarded to

JOHN McCARTHY, DAYTON, OHIO

The Rev. Bernard J. Kuhlman Prize of $5 in Gold for American History

Awarded to

MARK ALSTON, HAMILTON, OHIO

The Rudolph Wurlitzer Medal for Excellence in Violin

Awarded to

JOSEPH C. MOOSBRUGGER, DAYTON, OHIO

The Gold Medal for Excellence in Drumming

Awarded to

LOUIS R. SWAIN, KANKAKEE, ILL.

The C. E. W. Griffith Medal for Elocution

Awarded to

HERBERT F. ABEL, DAYTON, OHIO

The Ancient Order of Hibernians Medal for Excellence in Irish History

Awarded to

JOHN BREEN, DAYTON, OHIO

The Ladies' Auxiliary of the Ancient Order of Hibernians Medal

Awarded to

JAMES DEVEREUX, LEXINGTON, KY.

The L. Springer Raney Medal for Excellence in the Second Business Class

Awarded to

EDWARD J. MENNINGER, CINCINNATI, OHIO

COLLEGE OF ARTS, LETTERS AND SCIENCE

The College of Arts, Letters and Science purposes to offer to the student the time and opportunity to further cultivate and to bring to maturity the qualities of mind and heart and will that have been nourished to great extent in the Preparatory or High School Department. To attain this end a greater latitude is permitted in the selection of studies which are divided into three groups, leading to the degrees Bachelor of Arts, Bachelor of Letters, and Bachelor of Science. The selection of studies is made with the advice of and in consultation with members of the faculty designated for this purpose, and with the approval of the Prefect of Studies. Christian Doctrine, Philosophy, and English are considered fundamental studies for the three degrees. Latin and Greek are characteristic studies for students wishing to obtain the degree of Bachelor of Arts. Latin, History and Modern Languages are characteristic studies for candidates aspiring to the degree of Bachelor of Letters.

Candidates desiring a course in General Science with a view of preparing for teaching the same, may arrange for a course with the faculty. An extensive study of mathematics will form an essential feature. Upon the successful completion of the course, the degree of Bachelor of Science will be awarded.

REQUIREMENTS OF ADMISSION to the COLLEGE OF ARTS, LETTERS AND SCIENCE

Candidates for admission to the College of Arts, Letters and Science must be sixteen years old. They must give evidence of having completed satisfactorily an amount of preparatory work equal to sixteen units. By a unit is meant a subject pursued throughout the year comprising four or five recitations per week. Studies pursued for half a year entitle to half a unit.

In the case of graduates of a preparatory school or high school having a four-years' course, the diploma of graduation may be accepted in lieu of an examination of admission.

In the latter case blanks of admission will be supplied by St. Mary College, which must be filled out and signed by the proper authority of the preparatory school or high school.

The subjects of the sixteen units required for admission are arranged in two groups.

GROUP I.	REQUIRED SUBJECTS	11 UNITS
Algebra	To Quadratics	1 unit
Geometry	Plane	1 unit
English	Composition and Rhetoric	2 units
Latin	Grammar, Version, Composition	4 units
Languages	Greek or French or German	2 units
History	Ancient and Modern	1 unit
Sciences	Physical or Natural	1 unit

GROUP II.	REQUIRED SUBJECTS	5 UNITS
Algebra	Through Quadratics	½ unit
Geometry	Solid	½ unit
Latin	Advanced	1 to 4 units
German	Advanced	1 to 4 units
Greek	Elementary	1 to 3 units
Trignometry	Plane	½ unit
History	American, Civics	1 unit
Astronomy	Descriptive	½ unit
Descriptive		½ unit
Freehand Drawing		½ unit
Mechanical Drawing		½ unit
Botany, Zoology, Physiology, Physiography, each		½ unit

COLLEGE OF ARTS AND LETTERS

Faculty

Rev. Bernard P. O'Reilly, S. M.
President

Rev. Joseph A. Tetzlaff, S. M.
Vice-President
Latin, History

Rev. Aloys Schratz, S. M.
Philosophy, Latin

Bro. Adam Hofmann, S. M.
Higher Mathematics

Bro. William Wohlleben, S. M.
Chemistry

Bro. Ulrich Rappel, S. M.
Physical Science

Bro. Francis O'Reilly, S. M.
English

Rev. Walter Tredtin, S. M.
Religion, Latin, Greek

Bro. William Beck, S. M.
Natural Sciences

Rev. Clement Wulf, S. M.
Greek

Bro. Edward Knust, S. M.
Higher Mathematics, French

Bro. George L. Ley, S. M.
Bro. Thomas Poitras, S. M.
French

Bro. Thomas Mooney, S. M.
Librarian

Francis E. Canny, B.A., LL.B.
Elementary Law

Emil Hocke
Physical Instructor

Studies Prescribed for the Degree of Bachelor of Arts

FRESHMAN YEAR

First Term

	Periods
Religion (20)	2
English (50 a, b, c)	4
History (80)	2
Latin (30)	7
Greek (40)	6

Second Term

	Periods
Religion (20)	2
English (51 a, b, c)	4
History (81)	2
Latin (31)	7
Greek (41)	6

SOPHOMORE YEAR

First Term

	Periods
Religion (22)	2
English (52 a, b, c)	4
History (82)	2
Latin (32)	7
Greek (42)	6
Logic (25)	2

Second Term

	Periods
Religion (22)	2
English (53 a, b, c)	4
History (83)	2
Latin (33)	7
Greek (43)	6
Logic (25)	2

JUNIOR YEAR

First Term

	Periods
Religion (23)	2
Psychology (26)	6
English (54 a, b, c)	4
Latin (34)	7
Greek (44)	6
History (84)	2

Second Term

	Periods
Religion (23)	2
Psychology (26)	6
English (55 a, b, c)	4
Latin (35)	7
Greek (45)	6
History (85)	2

SENIOR YEAR

First Term

	Periods
Theodicy (24)	2
Metaphysics (27)	6
Ethics (28)	1
English (56 a, b)	4
Latin (36)	7
Greek (46)	6

Second Term

	Periods
Theodicy (24)	2
Hist. of Phil. (29)	6
Ethics (28)	1
English (57 a, b)	4
Latin (37)	7
Greek (46)	6

Studies Prescribed for the Degree of Bachelor of Letters

FRESHMAN YEAR

First Term	Periods	Second Term	Periods
Religion (20)	2	Religion (20)	2
English (52 a, b, c)	4	English (51 a, b, c)	4
History (80)	2	History (81)	2
Latin (30)	7	Latin (31)	7
French (70)	3	French (71)	3
German (60)	2	German (61)	2

SOPHOMORE YEAR

First Term	Periods	Second Term	Periods
Religion (22)	2	Religion (22)	2
English (52 a, b, c)	4	English (53 a, b, c)	4
History (81)	2	History (83)	2
Latin (32)	7	Latin (33)	7
French (72)	3	French (73)	3
German (62)	2	German (63)	2
Logic (25)	2	Logic (25)	2

JUNIOR YEAR

First Term	Periods	Second Term	Periods
Religion (23)	2	Religion (23)	2
English (54 a, b, c)	4	English (55 a, b, c)	4
Psychology (26)	6	Psychology (26)	6
Latin (34)	7	Latin (35)	7
French (74)	3	French (75)	3
German (64)	2	German (65)	2
History (84)	2	History (85)	2

SENIOR YEAR

First Term	Periods	Second Term	Periods
Religion (24)	2	Religion (24)	2
English (65 a, b)	4	English (57 a, b)	4
Ethics (28)	1	Ethics (28)	1
Metaphysics (27)	6	Philosophy (29) History	6
Latin (36)	7	Latin (37)	7
French (76)	3	French (76)	3
German (66)	2	German (66)	2

SUBJECTS OF INSTRUCTION

THE COLLEGE OF ARTS AND LETTERS

Moral

Freshman Year. Two Periods a Week.

20. Nature and Distinction of Laws; Conscience; Sin; Virtue; Precepts of the Decalogue; Forms of Worship; Oaths and Vows; Obligation of Hearing Mass; Suicide; Murder; Scandal; Dueling; Duty and Right; Violation of Rights; Restitution; Contracts; Fraud; Lying; Detraction; Calumny; Violation of the Secret; Commandments of the Church; Fasting and Abstinence; Laws of Marriage; Christian Perfection; Evangelical Counsels; States of Life; Vocation. The Sacraments; Confession, Holy Communion, Holy Orders, Matrimony. Feasts, Ceremonies and Religious Practices of the Church.

Dogma

Sophomore Year. Two Periods a Week.

22. The Holy Religion; God, His Essence and Attributes; Blessed Trinity; Creation of the World; the Angels; Man; Original Sin; the Incarnation; Jesus Christ in Prophecy, on Eearth, in Glory; the Work of Jesus Christ; Grace; Merit; Essence and Existence of the Sacraments, Effects and Efficacy of the Sacraments; Indulgences; Virtue; Four Last Things.

Christian Apologetics

Junior Year. Two Periods a Week.

23. 1. Religion, Revelation, Function of Reason in matters of Faith.

2. Historical value of the Sacred Scriptures. The Pentateuch; the Pentateuch and Science—Geology, Astronomy, Biology, Paleontology. The Bible and modern discoveries in Egypt, Assyria, and Chaldea. Historical value of the Gospels.

3. Demonstration of the Divinity of the Christian religion. Miracles and Prophesies, Phenomenon of Hypnotism. Ten proofs of the Divinity of the mission of Jesus Christ and His work, the establishment of the Christian Religion. Christianity and Buddhism, Christian Science and Faith Cure. Truth of the Catholic Religion. (1) The Roman Catholic Church possesses the four positive marks of the true Church. Protestantism. The Original Schismatic Church. Prerogatives conferred by Jesus Christ upon the Church. (2) Accusations brought against the Church. Intolerance; the Vicious Circle; the Inquisition; Galileo; Massacres of St. Bartholomew; Crusades; Wars of Religion; Revocation of the Edict of Nantes; Temporal Power of the Popes; Authority of the Popes in the Middle Ages; Bad Popes; the Church and Civilization.

Rational Theology

Senior Year. Two Periods a Week.

24. 1. Definition and scope. Relations to Dogmatic Theology. The Existence of God. Necessity of demonstrating the existence of God. Demonstration; arguments from motion, contingency, casuality, axiomatic truths, duty, moral sanctions, relativity, design, ontological argument. Atheism; Idealistic Atheism, Materialistic Atheism, Practical Atheism, Religious and Moral Consequences of Atheism.

2. Nature and attributes of God; Manner of Determining the Attributes of God; the Essence of God, and His metaphysical attributes, simplicity, perfection; idea of the infinite; immutability, eternity, unity, omnipresence. Moral attributes of God or the divine personality; God's knowledge; divine knowledge and human knowledge; divine knowledge and human liberty; divine will. Pantheism among the ancients, in the Middle Ages. Modern Pantheists, Spinoza's theory of substance, Fichte, Shelling, Hegel, Anthropomorphism.

3. Creation and Evolution: Creation according to St. Thomas; evolution according to the Fathers; evolution and the Bible.

PHILOSOPHY

Sophomore Year. Logic. Two Periods a Week.

25. General Introduction; Object of Logic; Division of Logic; Plan of Logic.

Formal Logic: On Concepts and Terms; The Proposition; The Syllogism.

Applied Logic or Methodology: On Method in General; Demonstration; Mathematical Demonstration; Method of the Physical Sciences; Method of the Natural Sciences; Method of the Moral Sciences; Errors and Sophisms; Truth and Science; The Principal Scientific Hypotheses.

Junior Year. Psychology. Six Periods a Week.

26. Object of Psychology: The Facts of Consciousness; The Faculties of the Soul; the Soul; Method of Experimental Psychology.

Treatise on Sensibility: Sense Perception; Consciousness of Sensation; Pleasure and Pain; the Mental Image; the Memory; Association of Ideas; Instinct; Appetency and Passion; the Motor Faculty.

Treatise on the Intellect: Attention; Abstraction; Generalization; Conception; Judgment; Reasoning; First Principles.

Treatise on the Will: Nature of the Will; Moral Liberty; Determinism.

Senior Year. Metaphysics. Six Periods a Week.

27. General Introduction; Nature of the Subject; Certitude of Metaphysical Inquiry; The Method of Metaphysics.

TREATISE ON ONTHOLOGY: Nature of Being; Attributes of Being; the True; The Beautiful; Art; The Esthetic Faculties; The Good.

TREATISE ON COSMOLOGY: The Existence of Eternal Reality; Matter; Motion; Life.

TREATISE ON RATIONAL PSYCHOLOGY: Nature of the Soul; The Union of the Body and Soul; The Soul Separated from the Body.

TREATISE ON THEODICY: The Existence of God; Nature and Attributes of God; Pantheism; Creation and Evolution.

Ethics.

28. A General View of the Science of Ethics. Conscience; Good and Duty; Merit; Responsibility and Sanction; Individual Ethics; Domestic Ethics; Social Ethics; Religious Ethics; Ethics and Political Economy.

History of Philosophy. Six Periods a Week.

29. General Introduction; Science according to Aristotle; Science according to Bacon; Science according to Comte; Definition of Philosophy; Oriental Philosophy; Greek Philosophy before Socrates; Plato, Aristotle; Philosophy of Rome; Scholastic Philosophy; Philosophy during the Renaissance; Bacon; Descartes, Malebranche, Spinoza, Leibnitz, Locke, Berkeley, Hume, Reid, Condillac, Kant; Contemporaneous Philosophy, Neo-Scholastic Philosophy.

LATIN

Freshman Year. Seven Periods a Week.

30. Cicero, Pro Archia; Vigil, Book VI; Horace, Select Odes.

Latin versification two hours a week. Latin composition and translation each two hours a week.

31. Cicero, Pro Marcello; De Senectute; De Amicitia. Horace, Select Odes.

Sight Reading, New Testament. Latin versification two hours a week. Latin composition and translation each two hours a week.

(New Latin Composition, 3d yr., Bennet).

Sophomore Year. Seven Periods a Week.

32. Horace, Ars Poetica, Epistles and Satires; Tacitus, Agricola.

Latin composition and translation each two hours a week. Latin versification twice a month.

33. Virgil, Georgics; Tacitus, Annals.

Latin Literature. Early writers to Cicero. Bi-monthly exercise in Latin versification. Latin composition and translation each two hours a week. (Aids to Latin Prose Composition, J. A. Kleist, S. J.)

Junior Year. Seven Periods a Week.

Pliny, Letters; Juvenal, Satires; Seneca, Essays.

Latin Literature, Augustan writers and writers of the subsequent epochs.

35. Cicero, De Officiis; Plautus, Captivi; Selections from the Fathers.

Comparative study of Greek and Latin Literatures. Weekly exercise in Latin composition and translation. Bimonthly exercise in Latin versification.

Latin conversation is a feature in all the classes.

Senior Year. Seven Periods a Week.

36. Terence, Andria; Quintilian, Books X. and XII. Weekly exercises in Latin composition and translation. Bimonthly exercises in Latin versification.

37. Cicero, Quaestiones Tusculanae; Seneca, Three Tragedies. Weekly exercises, as above.

GREEK

Freshman Year. Six Periods a Week.

40. Grammar (White): Inflection; declension; conjugation of paideuo. Translation and themes. New Testament (N. J. Stoffel, C. S. C.)

41. Grammar: From the conjugation of paideuo to end of inflections. Versions and themes.

Aesop, Fables. Greek Literature.

Sophomore Year. Six Periods a Week.

42. Inflections reviewed. Syntax of articles, noun, pronoun. Translation exercises based on the authors. Greek Literature.

Xenophon, Anabasis; Lucian, Dialogues; Herodotus, Extracts.

43. Grammar; Syntax to end. Translation exercises based on the authors.

Aeschylus, Agamemnon, or Persae, or Prometheus Vinctus; St. John Chrysostom, Eutropius; Homer, Iliad, Book I.

Junior Year. Five Periods a Week.

44. Grammar: Review of entire Syntax. Translation and composition based on the authors.

Sophocles, Oedipus Rex; Philoctetes; Plato, Apology; Homer, Odyssey, Book I.

45. Euripedes, Iphigenia in Aulis, or Medea, or Alcestis; Demosthenes, Philippics or De Corona; Aristophanes, Birds.

Senior Year. Five Periods a Week.

46. Plutarch, Lives; Plato, Phaedo. Lyrics from Greek poets; Sappho, Pindar.

ENGLISH

Freshman Year. Four Periods a Week.

50a. *Literary Criticism.*

Sentence; Paragraph; Complete Composition; Sublimity; Beauty; Wit and Humor; Melody; Personality in Literary Art.

The Letter of Friendship; News Letter; Open Letter; History of the Letter; The Letter in Hebrew, Greek, and Latin Literature.

Letters of Cicero, Pliny, Lord Chesterfield, Pascal, Newman.

b. *Oratory and Forensics.*

Qualities; Plan; Appeal to Passions; Argument; Style; Modern Influences; History of Oratory; Representative Oratory.

Public Speaking; Debating; Extempore Speaking; Principles of Argumentation.

For Reference: Depew, Library of Oratory; Bautain, Art of Speaking; Raymond, Orator's Manual; Coppens, Oratorical Composition; Shurter, Public Speaking.

c. *English Classics.*

As You Like It; Speeches of Burke, O'Connell, Webster, Cicero, Demosthenes.

51a. *Literary Criticism.*

The ESSAY: Modern Use; Tracts and Pamphlets; Editorials; Representative Essayists—Plutarch, Xenophon, Cicero, Pliny, Bacon, Addison, Macaulay, Matthew Arnold.

BIOGRAPHY: Sources of Biography; Kinds—Obituary, Eulogy, Diatribe, Philippic, Critique, Private Papers, Private Journal, Memoirs, Letters. Representative Biographers—Boswell, Morley, Plutarch, Southey.

HISTORY: Historical Interpretation; Prejudice; Modern Scientific Method.

Noted Historians—Guizot, Hume, Macaulay, Hallam, Linguard, Prescott, Bancroft.

POETRY: Elements of Versification; The Epic, Lyric, Pastoral, Ode, Sonnet. Characteristics of authors and general poetic values.

b. *English Literature.*

THE FORMATIVE PERIOD.

1. The Anglo Saxon or Old English Period.
   Beowulf; the Seafarer; Our First Speech; Bede, Caedmon; Alfred.
2. The Anglo Norman Period.
   The Norman Conquest; Literary Ideals of the Normans; Geoffrey of Monmouth: Layamont.

3. The Age of Chaucer.
Langland; Wickliffe; Mandeville; Wyatt; Surrey; Mallory.

For Reference: cf 53a.

c. *English Classics.*
Richard III.; The Tempest; Canterbury Tales; Bacon, Emmerson, Spalding, Azarias, Essays; De Coverley Papers.

Sophomore Year. Four Periods a Week.

52a. *English Literature.*

THE ELIZABETHAN PERIOD.

Character of the Elizabethan Age.

The Non-Dramatic Poets—Spencer, Sackville, Sydney, Drayton.

Brief Study of the Drama; Shakespeare's Predecessor, Marlowe; Shakespeare himself; His Contemporaries and Successors—Ben Johnson, Beaumont and Fletcher; Webster, Middleton, Haywood, Messinger.

Prose Writers: Bacon, Hooker, Raleigh.

THE MODERN PERIOD.

1. The Puritan Age.
Literary Characteristics.
Metaphysical Poets: Hubert, Herrick, Milton.
Prose Writers: Bunyan, Taylor, Walton.

2. The Period of Restoration.
Literary Characteristics.
Authors: Dryden, Butler.

For Reference: cf 53a.

b. *The Short Story.*
The Rise and Place of the Short Story; Nature and Kinds of the Short Story.

Structure of the Short Story; Theme, Material, Plot, Plot Development, Opening of the Story, Setting and Body of the Story.

For Reference: cf 53b.

c. *English Classics.*
Hamlet, King Lear; Spencer, Faerie Queene; Milton, Paradise Lost, Lycidas.

53a. *English Literature.*

THE MODERN PERIOD.

1. The Age of Classicism.
Literary Characteristics.
Authors: Pope, Swift, Addison, Johnson, Burke.
The Revival of Romantic Poetry: Gray, Goldsmith, Cowper, Burns.

The First English Novelists: Defoe, Richardson, Fielding, Smollett.

2. The Age of Romanticism.
Literary Characteristics.
Poets: Wordsworth, Coleridge, Southey, Scott, Byron, Shelley, Keats.
Prose Writers: Lamb, De Quincy, Austen, Landor.

3. The Victorian Age.
Literary Characteristics.
Poets: Tennyson, Browning, Morris, Swinburne.
Novelists: Dickens, Thackeray, Eliot, Bulwer Lytton, Blackmore, Meredith, Stevenson.
Essayists: Macaulay, Carlyle, Ruskin, Matthew Arnold, Newman.
The Spirit of Modern Literature.
The Catholic Revival.

For Reference: Garnett and Goss, Illustrated History of English Literature; Jusserand, Literary History of the English People; Saintsbury, History of Elizabethan Literature; Stedman, Victorian Poets; Hazlitt, Lecture on the English Poets; Dowden, Studies in Literature; Minto, Characteristics of English Poets; Courthope, History of English Poetry; Lowell, Literary Essays; Palgrave, Golden Treasury; Jenkin's Literature: Brooke, Early English Literature; Crawshaw, The Making of English Literature.

b. *The Short Story.*

Structure (cont.)—Characters, dialogue, title, style, special characters.

Preparation for Authorship—Originality, talent, acquiring of vocabulary, the study of the short story.

The Manuscript and its Market—Writing the Story, Selling the Story.

For Reference: Brander Matthews, The Short Story, the Philosophy of the Short Story.

c. *English Classics.*

Pope, The Rape of the Lock; Milton, Ode on Immortality; Wordsworth, Keats, Shelley, and Browning.

Poems; Tennyson, The Princess, The Idylls of the King.

Junior Year. Four Periods a Week.

54a. *American Literature.*

THE PERIOD OF BEGINNINGS (1608-1809).

The Colonial Writers: Smith, Mather, Edwards.

The Revolutionary Writers: Henry, Jefferson, Hamilton, Frenau, Franklin.

THE PERIOD OF ACHIEVEMENT (1809-1870).

The Knickerbocker School: Irving, Cooper, Bryant.

The New England Group—Poets and Essayists: Emerson, Longfellow, Whittier, Lowell, Holmes, Thoreau.

For Reference: cf 55a.

b. *Study of the Novel.*

Origin of the Novel: Elements, Egyptian Tales, Greek Romances, Mediaeval Conglomerates, The Modern Novel.

For Reference: cf 55b.

c. *English Classics.*

Newman, Idea of a University; Scott, Quentin Durward; Thackeray, Henry Esmond; Dickens, Pickwick Papers; Lowell, Among My Books; Holmes, Poems; Emerson, Essays.

55a. *American Literature.*

THE PERIOD OF ACHIEVEMENT (Cont.)

The New England Group—Orators, Novelists, Historians: Webster, Hawthorne, Stowe, Bancroft, Prescott, Parkman, Motley.

Early Southern Writers: Simms, Poe, Hayne, Timrod.

Writers of the Middle States: Taylor, Whitman, Stoddard, Curtis.

THE PRESENT PERIOD (1870-1910).

New England since 1870: Stedman, Aldrich, Hale, Warner, Fiske.

The New South: Lanier, Cable, Harrison, Page, Allen.

Recent Writers of the Middle States: Burroughs, Howells, James, Crawford, Stockton.

The Rise of Western Literature: Harte, Clemens, Eggleston, Field, Riley.

For Reference: Stedman and Hutchinson, Library of American Literature; Johnson, History of American Literature; Underwood, American Literature; Heydrick, Literature; Page, Chief American Poets; Trent and Wells, Colonial Prose and Poetry; Stedman, An American Anthology; Brownell, American Prose Masters.

b. *Study of the Novels*

Development of the Modern Novel: Plot; Motive and Verisimilitude; Character; Background; Style.

For Reference: Horne, The Technique of the Novel; Hamilton, Materials and Methods of Fiction; Stevenson, A Gossip on Romance; Stoddard, A Study of the Novel; Saintsbury, The Historical Novel; Brander Matthews, Aspects of Fiction, The Historical Novel; Perry, A Study of Prose Fiction; Whitcomb, The Study of a Novel; Jack, Essays on the Novel; Dawson, Makers of English Fiction; Phelps, Essays on Modern Novelists.

c. *English Classics.*

Stedman, Poems; Bulwer Lytton, Last Days of Pompeii; Jane Porter, Scottish Chiefs; Othello; Reading of Modern Novels.

Senior Year. Four Periods a Week.

56a. *The Study of the Drama.*

The Drama—Its Law; Dramatic Unity; Nature and Sources of Tragic Effect; Nature and Sources of Comic Effect.

Its Technique: The Two Types of Drama; Logical Divisions of the Drama; Mechanical Divisions of the Drama; Character-Treatment; Plot in Comedy; Character-Treatment in Comedy.

COMPARATIVE STUDY—THE ANCIENT DRAMA.

For Reference: Moulton, Ancient Classical Dramas; Campbell, Guide to Greek Tragedy; Donaldson, The Theatre of the Greeks; Symmonds, The Greek Poets; Jevons, History of Greek Literature; Quinn, Helladian Vistas.

Roman Tragedy and Comedy: Origin and Development. Famous Authors.

For Reference: Brander Matthews, Development of the Drama; Seller, The Roman Poets of the Republic; Riley, Translation of Terrence and Plautus; Crutwell, History of Roman Literature.

Miracle and Mystery Plays: Origin and Development.

For Reference: Pollard, Miracle Plays.

French Comedy: Origin and Development.
Author: Moliere.

For Reference: Fortier, Histoire de la Literature Francaise; Translation of Moliere's Works.

THE MODERN DRAMA.

French Tragedy: Origin and Development.
Authors: Corneille, Racine.

For Reference: Baudrillard, The Catholic Church, Renaissance and Protestantism; Fortier, Histoire de la Literature Francaise.

Spanish Drama: Origin and Development.
Authors: Lope de Vega, Calderon.

For Reference: Tichnor, History of Spanish Literature; McCarthy, Dramas of Calderon, Translated.

English Drama: Origin and Development.
Authors: Greene, Lyle, Marlowe, Shakespeare, Beaumont and Fletcher, Ben Johnson. Dryden, Wycherly.

For Reference: Moulton, Shakespeare as a Dramatic Artist; University Edition of Shakespeare's Works; Pollard, English Miracle Plays, Moralities and Interludes.

German Drama: Origin and Development.
Authors: Lessing, Schiller, Goethe.

For Reference: Baumgartner, Life of Goethe; Carlyle, Essays.

The Modern Romantic School. Authors: Rostand, Phillips, Isben, Sudermann, etc.

For Reference: Brander Matthews, Development of the Drama.

b. *English Classics.*

Midsummer Night's Dream, Twelfth Night; Azarias, The Philosophy of Literature. Reading from Sophocles, Aristophanes, Terence, Plautus, Moliere, Corneille, Racine.

57a. *The Study of Foreign Literature.*

The Italian Renaissance: Age of Dante; Italian Influence on English Literature.

The Age of Classicism: French Influence on English Literature.

Comparative Study of Modern Literatures: English, French, German, Spanish, Italian.

For Reference: Botta, Handbook of Universal Literature; Wright, Masterpieces of Greek Literature; Dean Church, Essay on Dante; Ozanam, Dante and the Philosophy of the XIII. Century; Ruskin's Works; Lowell's Essays, Vol. IV.; Kelly, History and Criticism of Spanish Literature; Scherer, History of German Literature; Baumgartner, Weltliteratur.

b. *English Classics.*

Dante, Inferno; Lope de Vega, Star of Seville, Calderon, Secret in Words; Marlowe, Edward II., Faustus; Schiller, Mary Stuart; Goethe, Faust; Rostand, Cyrano de Bergerac; Chantecler.

GERMAN

Freshman Year. Three Periods a Week.

60. Advanced study of German Grammar. German Literature: I. and II. Periods, with selections from the authors of these periods. Lectures on German Epic and Lyric Poetry, with their representative writers.

61. German Conversation. German Literature: III., IV., and V. Periods, with selections from the authors of these periods. Detailed study of the Life and Works of Klopstock and of Wieland.

Selections to be made from the following: Klopstock's *Odes, Oberon, Nathan the Wise, Minna von Barnhelm, Die Braut von Messina.*

Sophomore Year. Three Periods a Week.

62. Translation from English into German. German Literature: VI. Period, with selections from the authors of this period. Lectures on German Drama, with its representative writers..

63. German Composition and Conversation. German Literature VI. Period, with selections from the authors of this period. Detailed study of the Life and Works of Schiller and of Lessing. First and Second Semesters.

Selections to be made from the following: *Wallenstein* (three parts), *Maria Stuart, Emilia Galotti, Faust.*

Junior Year. Three Periods a Week.

64. Scientific German, and German Conversation. German Literature: VII. Period, with selections from the authors of this period. Lectures on German Prose (Historical, Critical, Philosophical, Oratorical, Romantic), with its representative writers.

65. Original Essays in German and German Conversation. German Literature: VII. Period with selections from the authors of this period. Detailed study of the Life and Works of Goethe and of Herder.

Selections to be made from the following: *Goetz von Berlichingen, Wilhelm Meister's Lehrjahre, Iphigenie in Tauris, Die Italienische Reise, Blaetter von Deutscher Art und Kunst, Selections from the Thirty Years' War.*

Senior Year. Two Periods a Week.

66. German Philosophical Works.

FRENCH

Freshman Year. Three Periods a Week.

70. Elementary Grammar, Pronunciation, written exercises.

Based on Syms' First Year French.

71. Continuation of work done during the First Semester; reading of simple French short stories; study of simple memory selections; conversation.

Based on Syms' Second Year French.

Collateral Reading: *Fables Choisies de La Fontaine. Les Plus Jolis Contes des Fees Lazare.*

Sophomore Year. Three Periods a Week.

72. Advanced Grammar; written exercises; conversation; continuation of reading and memory selections of the first year.

Based on Syms' Third Year French.

Collateral Reading: Aldrich and Foster's French Reader. *Fleurs de France. Contes de Daudet.*

73. Continuation of the work of the preceding semester.

Syms' Third Year French is completed; a general review of French Grammar and exercises in French Composition weekly.

Collateral Reading: *Choix de Contes Contemporains. Contes Choisis* de J. Lemaitre. *Contes Choisis* de Rene Bazin. Plays selected from Labiche and Legouve.

Junior Year. Three Periods a Week.

74. In this course the French Language is exclusively used. French Literature of the X., XII., XIII., XV., and XVI. centuries is insisted upon, but a thorough study of the XVII. century and of the principal authors is made.

Text. Fortier's *Histoire de la Litterature Francaise.*

Special study of Corneille, *Le Cid, Horace, Polyeucte* (only one); Racine, *Athalie, Andromaque, Brittanicus,* (only one); Moliere, *l'Avare, le Misanthrope, le Bourgeois Gentilhomme;* Boileau, *Selections;* Bossuet, *Oraisons Funebres, Sermons; Fenelon, Telemaque.*

75. Continuation of the work started in the preceding semester; special study of the XVIII. and XIX. centuries.

Selections from Voltaire, Rousseau, and others of the XVIII. century.

Special study of Chateaubriand, *Atala, Avantures du Dernier des Abencerges, poems.* La Triade Francaise: Lamartine, Alfred de Musset, and Victor Hugo. H. de Bornier, *La Fille de Roland;* Rostand, *Cyrano de Bergerac* and *l'Aiglon.*

Lectures in French will be given on other authors and the influence on French thought and life.

Senior Year. One Period a Week.

76. Reading of French Philosophers: Pascal, *Pensees;* Descartes, *Discours sur la Methode;* Cousin, *le Vrai, le Beau et le Bien.*

HISTORY

Freshman Year. Two Periods a Week.

80. Christianity and the Roman Empire; Origin of the Papal States; Charlemagne; The Papacy and the Empire.

81. Mediaeval Universities; Crusades; Rise of the Western States; Religious Orders; Schism of the West.

Sophomore Year. Two Periods a Week.

82. The Renaissance; Modern Maritime Enterprises; The Great Religious Schism; Thirty Years' War; Anglo-Indian Empire; French Absolutism.

Junior Year. Two Periods a Week.

83. The French Revolution; The Napoleonic Wars; The French Republic; Reform Movement; Unification of Germany and Italy; Kulturkampf in Germany. Eastern Question; Awakening of the Orient; Current Events.

Senior Year. Two Periods a Week.

84. Constitutional History of the United States; Principles and Applications of the Constitution; Duties of an American Citizen.

85. Labor Question; Race Problem; Social Reformers.

ELEMENTARY LAW

Freshman Year. One Hour a Week.

86. The new course of Elementary Law has for its purpose to teach the scope and field of jurisprudence. Law will be shown as a science and as a structure, and classification and explanation of the various departments will be made clear to the classes without treating law technically. The course will be supplemented by lectures on business law.

ART DEPARTMENT

A well-rounded education should embrace a knowledge of art. True art has both an aesthetic and moral value. It uplifts the imagination and refines the sensibilities. It enables us to reproduce that beauty and harmony in our lives. The aim of the art course, therefore, will be to train the eye to see beauty and to train the hand to reproduce it.

Instructions are given in pen, and charcoal drawing, in water color painting, and painting in oils. Studies are made from objects, from casts, and from the human figure. The charming scenery of the Miami Valley affords ample opportunities for outdoor sketching.

A History of Art, in its three main branches of painting, sculpture, and architecture, completes the course. The College has a choice collection of photographic prints of the world's masterpieces, to which the students have access at all times.

MUSIC DEPARTMENT

The Music Department of the College is intended primarily to accommodate those who wish to pursue the study of music for its cultural advantages and as a refined accomplishment. On this idea the programs that follow are based.

Piano

Grade A. Position and playing motions. Finger exercises. Elements of notation. Studies: W. S. B. Mathews' Standard Graded Course, Grade I., or equivalent. Broken chords in major triads. Major scales. Pieces.

Grade B. Studies: W. S. B. Mathews' Standard Graded Course, Grade II. Broken chords in major and minor triads. Major, minor, and chromatic scales. Transposition. Ele-

mentary octave and chord practice. Easy movements from Sonatinas. Pieces. Leading facts in musical biography.

Grade C. Studies. W. S. B. Mathews' Standard Graded Course, Grade III. Broken chords and arpeggios in major and minor triads and in dominant and diminished sevenths. Scales, octaves, and chords. Movements from Sonatinas. Pieces. Elementary notions of harmony.

Grade D. Studies: W. S. B. Mathews' Standard Graded Course, Grade VI. Technic outlined in Grade C in greater speed and covering greater range of keyboard. Major, minor, and chromatic scales in double thirds and sixths. Movements from Sonatas. Pieces. Harmony.

Violin

Grade A. Elementary exercises. Hermann, Bk. I, Part I and II. Goby Eberhardt, Part I. Scales in first position. Bowing exercises. Studies: de Beriot, Wohlfahrt, Schradieck, Dancla, Hohmann, Hofmann, Sevcik, Op. 6; Kayser, Op. 20, Bk. I; pieces by Saenger, Missa, Dancla, and others.

Grade B. Finger and bowing exercises. Hermann, Bk. I, Part III., and Bk. II. Goby Eberhardt, Part II. and III. Scales. Kayser, Op. 20, Bk. II., Op. 44, Part. Dont, 24 exercises; Wohlfahrt, Op. 45, I. Part and II.; Op. 54, Part I., Hans Sitt, Op. 32, Part I.; Sevcik technical studies; Alard; de Beriot; Blumenstengel scale studies; Mazas; solos by Dancla and others; duets by Dancla, Mazas, Pleyel and others.

Grade C. Bowing exercises. Scales (three octaves). Studies: Dont, Mazas, Sevcik, Sitt, Op. 32, Part II. and III., Wohlfahrt, Op. 54, Part II. and III.; Kreutzer Etudes; Fiorillo Etudes. Halir scale studies; Schradieck, I., II., III. Solos: David, de Beriot, Air Varies, Raff, and others.

Grade D. Scales (in three octaves, in thirds and octaves). Arpeggios; Rode Caprices; Kreutzer and Fiorillo Etudes combined; Campagnoli, seven divertisements. Solos: Wieniawski, Beethoven, Alard, Ries, etc. Concertos: Rode, de Beriot, Viotti, Sonatas by Handel, Mozart, Haydn, etc.

For other instruments similar courses will be arranged, if warranted by the number of applicants.

PHYSICAL TRAINING

Since it is the function of education to train the growing individual into useful and sterling manhood, it is all important that physical education demand attention in any scheme of educational work, since the capacity for usefulness is so largely determined by the physical health of the individual.

In order that these needs may be adequately supplied, a large variety of work—hygienic, corrective, recreative, and competitive—is offered in regularly organized classes under proper guidance of a physical director.

The students of all classes take physical training. One-fourth credit is given yearly to students attaining a satisfactory average in the classes of physical training.

One semester hour is devoted weekly to physical training in the gymnasium or on the campus.

Unless physically unfitted for physical training, the students of all classes shall attend every period of assigned work. Exception to this rule can be made only with the permission of the Vice-President of the College.

A course of lectures will be given by Mr. Emil Hocke during the year on Personal Hygiene and Physiology of bodily exercises.

Required Work

1. Floorwork: gymnastic and military tactics.
2. Hygienic and corrective work: free exercises with or without hand apparatus.
3. Recreative and competitive work: gymnastic games.
4. Athletic: class work in athletic exercises.

COLLEGE OF ENGINEERING

The College of Engineering, organized September, 1910, is designed to satisfy an oft-repeated desire and to fill a long-felt need. This College is a natural outgrowth of the science courses which have always reecived considerable attention at St. Mary.

No effort is spared to acquaint the student thoroughly with the fundamental principles and to give him a good insight into the theoretical analysis of engineering problems. While emphasis is laid on fundamental theory, continual attention is paid to the solution of practical problems for the purpose of imbedding principles and illustrating the lines of their general industrial application. At the same time students are trained to habits of initiative and industry, and will thus be well prepared to adapt themselves readily to actual conditions and requirements, and to grapple with new problems that from time to time confront the professional engineer.

Lecture and text-book courses are accompanied throughout by quantitative work in well-equipped laboratories.

Frequent visits are made to accessible engineering establishments to make the student thoroughly conversant with the trend of current engineering practice. For such purposes Dayton offers exceptional facilities owing to the great number and variety of engineering plants located in the city and vicinity.

Lectures by engineers in active service will help to keep the student in touch with professional work.

REQUIREMENTS OF ADMISSION
to the
COLLEGE OF ENGINEERING

Candidates for admission to the College of Engineering must be sixteen years old. They must give evidence of having satisfactorily completed an amount of preparatory work averaging sixteen units. By a unit is meant a subject pursued throughout the year, comprising four or five recitations per week. Studies pursued for half a year entitle to half a unit.

In the case of Graduates of a Preparatory School or a High School having a four years' course, the diploma of graduation may be accepted in lieu of an entrance examination.

In the latter case blanks of admission will be supplied by St. Mary College, which must be filled out and signed by the proper authority of the Preparatory School or High School.

The subjects of the sixteen units required for admission are arranged in two groups.

GROUP 1	REQUIRED STUDIES	10 UNITS
Algebra	To Quadratics	1 unit
Algebra	Through Quadratics, Binominal Theorem	½ unit
Geometry	Plane	1 unit
Geometry	Solid	½ unit
English	Composition and Rhetoric	2 units
Languages	Latin or German or French	3 units
Physics	Elementary with Laboratory Prac.tice	1 unit
Chemistry	Inorganic with Laboratory Practice	1 unit

GROUP II	OPTIONAL STUDIES	6 UNITS
Latin	Advanced	1 to 4 units
German	Advanced	1 to 4 units
Greek	Elementary	1 to 3 units
Trigonometry	Plane	½ unit
History	Ancient and Modern, Civics	2 units
Astronomy	Descriptive	½ unit
Botany	Elementary	½ unit
Zoology	Elementary	½ unit
Physiology	First Elements	½ unit
Physiography	Elements	½ unit
Freehand Drawing		½ unit
Mechanical Drawing		1 unit
Manual Training or Shopwork		1 unit

COLLEGE OF ENGINEERING

Faculty

Rev. Bernard P. O'Reilly, S. M.
President

Rev. Joseph A. Tetzlaff, S. M.
Vice-President

Bro. Adam Hofmann, S. M., M. Sc.
Mathematics

Bro. William J. Wohlleben, S. M., M. Sc., Ph. D.
Chemical Engineering, Mineralogy

Bro. Ulrich J. Rappel, S. M., B. A., M. Sc., Ph. D.
Formerly Assistant Professor of Physics
at the University of Fribourg, Switz.
Electrical Engineering

Bro. Edward Knust, S. M., M. Sc.
Mathematics, Surveying

Bro. William A. Beck, S. M., M. Sc.
Physics, Mathematics

Bro. Francis J. O'Reilly, S. M., M. A.
Mechanical Drawing, English

Rev. Clement Wulf, S. M.
Logic, Psychology, Rational Theology

Rev. Walter Tredtin, S. M.
Apologetics, Dogma, Moral

Bro. George L. Ley, S. M.
German, French

Bro. Thomas Poitras, S. M.
French

Bro. Thomas Mooney, S. M.
Librarian

Francis E. Canny, B. A., LL. B.
Elementary Law

Emil Hocke
Physical Instructor

STUDENTS' ADVISORY COMMITTEE

Bro. Adam Hofmann, S. M.

Bro. William J. Wohlleben, S. M.

Bro. Ulrich J. Rappel, S. M.

SPECIAL LECTURERS

Melrose G. Kopf, E. E.
Chief Engineer of the McCormick Manufacturing Co.

F. J. Cellarius, C. E.
(Member of the Ohio Engineering Society)
Civil Engineer, Dayton

Frank Morrison Tait
President of the Dayton Power and Light Co.

F. O. Clements, A. M., M. S.
Chief Chemist of the National Cash Register Company

Harry F. Finke, B. S.
Civil Engineer and Contractor

Louis H. McFadden, A. M.
Chief Chemist of Lowe Bros. Paint Company, Dayton, Ohio

ELECTRICAL ENGINEERING

The course in Electrical Engineering aims to give a broad knowledge of the Theory of Electricity and of its applications in the arts. The instruction is given by lectures, recitations, and laboratory work.

As the modern development of Electrical Engineering has taken place largely along lines dependent on a thorough acquaintance with the Theory of Electricity, great importance is attached to this study.

In the junior and senior years the lectures have a distinctly professional character.

The theoretical work is closely linked with an extended course of laboratory exercises. In the laboratories General Physical Measurements are first taken up, followed by General Electrical Measurements. This leads to work in Electrical Testing and Electrical Engineering where distinctly engineering problems are taken up. The work is so arranged as to develop in the students habits of observation, precision, initiative and industry.

COURSE IN ELECTRICAL ENGINEERING

Freshman Year

First Term

Subjects	Weeks	Periods per Week
Christian Doctrine (100)	17	2
English (110, 111)	17	2
French (120)	17	3
Scientific German (125)	17	2
Higher Algebra (151)	17	5
Trigonometry (150)	17	5
Mechanical Drawing (171)	17	8
Qualitative Chemistry (201)	17	3
Qualitative Analysis (202)	17	3
Use of Calculating Machines		

Second Term

Christian Doctrine (100)	17	2
English (110, 111)	17	2
French (121)	17	3
Scientific German (125)	17	2
Higher Algebra (151)	17	5
Descriptive Geometry (170)	17	8
Analytical Geometry (152)	17	5
Qualitative Chemistry (201)	17	3
Qualitative Analysis (202, 203)	17	3
Shop Work (230, 231)	8	44

COURSE IN ELECTRICAL ENGINEERING

Sophomore Year

First Term

Subjects	Weeks	Periods per Week
Christian Doctrine (101)	17	2
English (112, 113)	17	2
French (122)	17	3
Machine Drawing (172)	17	5
Calculus (153)	17	5
Vector Analysis (155)	17	1
Physics (180)	17	3
Physical Laboratory (181)	17	6
Surveying (163)	17	5

Second Term

Christian Doctrine (101)	17	2
English (112, 113)	17	2
French (123)	17	3
Machine Drawing (172)	17	5
Calculus (154)	17	5
Vector Analysis (155)	17	1
Differential Equations (156)	17	2
Physics (180)	17	3
Physical Laboratory (181)	17	6
Shop Work (232, 233, 234)	8	44

COURSE IN ELECTRICAL ENGINEERING

Junior Year

First Term

Subjects	Weeks	Periods per Week
Christian Doctrine (102)	17	2
Spanish (optional) (130)	17	2
Dynamo Electric Machinery (186)	17	3
Electrical Measurements (185)	17	3
Theoretical Mechanics (160)	17	5
Applied Mechanics / Strength of Materials (161)	17	3
Theory of Mechanism (157)	17	1
Electrical Laboratory (188)	17	5
Machine Design (173)	17	3

Second Term

Christian Doctrine (102)	17	2
Spanish (optional) (130)	17	2
Dynamo Electric Machinery (186)	17	3
Electrical Measurements (185)	17	3
Theoretical Mechanics (160)	17	5
Applied Mechanics / Strength of Materials (161)	17	3
Theory of Mechanism (157)	17	1
Electrical Laboratory (188)	17	5
Thermodynamics (158)	17	2
Machine Design (173)	17	3
Electrical Machine Construction (194)	8	44

COURSE IN ELECTRICAL ENGINEERING

Senior Year

First Term

Subjects	Weeks	Periods per Week
Christian Doctrine (103)	17	2
Theory of Alternating Currents and Alternating Current Machinery (187)	17	5
Electrical Measurements, Illumination and Photometry (185)	17	3
Electrical Laboratory (189)	17	5
Philosophy: Logic (104)	17	2
Electrical Design (191)	17	5
Telephony and Telegraphy (195)	17	2
Seminar (193)	17	1

Second Term

Christian Doctrine (103)	17	2
Theory of Alternating Currents and Alternating Current Machinery (187)	17	5
Electrical Measurements (185)	17	3
Electrical Distribution and Control (190)	17	3
Electrical Laboratory (189)	17	5
Hydraulics (162)	17	2
Philosophy: Psychology (105)	17	2
Electrical Design (191)	17	5
Economics (106)	17	1
Seminar (193)	17	1
Excursions (192)		

CHEMICAL ENGINEERING

In arranging the following Course of Chemical Engineering, the Faculty has aimed at meeting the needs of such students who desire to obtain a fundamental knowledge of Chemistry and other allied subjects so as to enable them to deal with problems of construction, operation, and maintenance in connection with manufacturing processes that are essentially chemical in character. With this end in view, the course includes instruction in Qualitative and Quantitative Chemical Analysis in its various phases, in Organic and Technical Chemistry. In the Laboratory the Synthesis of typical chemical compounds leads up to the actual analysis of mixtures, alloys, and minerals according to the gravimetric, volumetric, and electrolytic methods. This work is followed by extensive practice in the domains of Organic Chemistry, Organic Technology, and Physical Chemistry. Collateral courses include Mechanical Drawing, Higher Mathematics, Advanced Physics, Mineralogy, the study of Electrical Currents and Machinery, and of one or more Modern Languages. The student is thus expected to be equipped to solve the problems constantly confronting the Chemical Engineer in the industrial field.

The Chemical Laboratories are provided with a complete stock of all necessary glass, porcelain, platinum and other metal ware, water, gas, and air-blast. Each student is provided with a locker containing all necessary apparatus for his work. Special apparatus for gas, fuel, water, and mineral analysis is also at hand, as well as analytical balances of standard makes and great sensitiveness. Modern appliances are also at the disposal of the student for electro-analysis. Numerous fume hoods insure proper ventilation of the rooms. Regard for the comfort of one's fellow-students is insisted upon. The Department Library contains standard chemical periodicals and publications in English, German and French.

COURSE IN CHEMICAL ENGINEERING

Freshman Year

First Term

Subjects	Weeks	Periods per Week
Christian Doctrine (100)	17	2
English (110, 111)	17	2
French (120)	17	3
Scientific German (125)	17	2
Higher Algebra (151)	17	5
Trigonometry (150)	17	5
Mechanical Drawing (171)	17	8
Qualitative Chemistry (201)	17	3
Qualitative Analysis (202)	17	3
Use of Calculating Machines.		

Second Term

Christian Doctrine (100)	17	2
English (110, 111)	17	2
French (121)	17	3
Scientific German (125)	17	2
Higher Algebra (151)	17	5
Descriptive Geometry (170)	17	8
Analytic Geometry (152)	17	5
Qualitative Chemistry (201)	17	3
Qualitative Analysis (202, 203)	17	3
Shop Work (230, 231)	8	44

COURSE IN CHEMICAL ENGINEERING

Sophomore Year

First Term

Subjects	Weeks	Periods per Week
Christian Doctrine (101)	17	2
English (112, 113)	17	2
French (122)	17	3
Quantitative Analysis (204)	17	7
Calculus (153)	17	5
Vector Analysis (155)	17	1
Physics (180)	17	3
Physical Laboratory (181)	17	6
Mineralogy (220)	17	2

Second Term

Christian Doctrine (101)	17	2
English (112, 113)	17	2
French (123)	17	3
Quantitative Analysis (205)	17	7
Calculus (154)	17	3
Vector Analysis (155)	17	1
Differential Equations (156)	17	2
Physics (180)	17	3
Physical Laboratory (181)	17	6
Shop Work (232, 233, 234)	8	44

COURSE IN CHEMICAL ENGINEERING

Junior Year

First Term

Subjects	Weeks	Periods per Week
Christian Doctrine (102)	17	2
Spanish (optional) (130)	17	2
Technical Analysis (207)	17	6
Electrochemistry (206)	6	6
Organic Chemistry (208)	17	3
Theoretical Mechanics (160)	17	5
Applied Mechanics / Strength of Materials (161)	17	3
Electrical Laboratory (188)	17	3
Machine Design (173)	17	3
Seminar (212, 213)	17	1

Second Term

Christian Doctrine (102)	17	2
Spanish (optional) (130)	17	2
Technical Analysis (207)	12	5
Organic Chemistry (208)	17	3
Chemical Technology (210)	17	2
Theoretical Mechanics (160)	17	5
Applied Mechanics / Strength of Materials (161)	17	3
Electrical Laboratory (188)	17	3
Thermodynamics (158)	17	2
Machine Design (173)	17	3
Seminar (212, 213)	17	1

COURSE IN CHEMICAL ENGINEERING

Senior Year

First Term

Subjects	Weeks	Periods per Week
Christian Doctrine (103)	17	2
Physical Chemistry (211)	17	2
Organic Practice (209)	17	12
Chemical Technology (210)	17	2
Philosophy: Logic (104)	17	2
Seminar (212, 213)	17	1
Inspection Visits (214)		

Second Term

Christian Doctrine (103)	17	2
Organic Practice (209)	17	12
Physical Chemistry (211)	17	2
Hydraulics (162)	17	2
Philosophy: Psychology (105)	17	2
Economics (106)	17	1
Seminar (212, 213)	17	1
Inspection Visits (214)		

COURSE IN CIVIL ENGINEERING

The course in Civil Engineering is so designed as to give the student a thorough theoretical and practical training in the fundamental sciences upon which professional practice is based. Moreover, care is taken to make this foundation broad enough to prepare the student to pursue to advantage any line of Civil Engineering practice, whether it be Topographical, Railroad, Municipal, Structural or Hydraulic. All of these are but ramifications of the same parent stem and grow from a relatively compact body of principles. It is in these principles that the student is trained by practice in the class room, drafting room, field and testing laboratory.

As in the other departments, special attention is given to develop in the student habits of observation, precision, initiative and industry. Particular stress is laid upon the systematic reading of current technical publications.

Visits of inspection are paid to civil engineerng works of note, both completed and in process of construction. After each such visit the student is obliged to draw up a detailed critical report.

COURSE IN CIVIL ENGINEERING

Freshman Year

First Term

Subjects	Weeks	Periods per Week
Christian Doctrine (100)	17	2
English (110, 111)	17	2
French (120)	17	3
Scientific German (125)	17	2
Higher Algebra (151)	17	5
Trigonometry (150)	17	5
Mechanical Drawing (171)	17	8
Qualitative Chemistry (201)	17	3
Qualitative Analysis (202)	17	3
Use of Calculating Machines		

Second Term

Christian Doctrine (100)	17	2
English (110, 111)	17	2
French (121)	17	3
Scientific German (125)	17	2
Higher Algebra (151)	17	4
Descriptive Geometry (179)	17	8
Analytical Geometry (152)	17	5
Qualitative Chemistry (201)	17	2
Qualitative Analysis (202, 203)	17	4
Shop Work (230, 231)	8	44

COURSE IN CIVIL ENGINEERING

Sophomore Year

First Term

Subjects	Weeks	Periods per Week
Christian Doctrine (101)	17	2
French (122)	17	2
English (112, 113)	17	3
Machine Drawing (172)	17	5
Calculus (153)	17	5
Vector Analysis (155)	17	1
Physics (180)	17	3
Physical Laboratory (181)	17	6
Surveying (163)	17	6
Mineralogy (220)	17	2

Second Term

Christian Doctrine (101)	17	2
English (112, 113)	17	2
French (123)	17	3
Machine Drawing (172)	17	5
Calculus (154)	17	5
Vector Analysis (155)	17	1
Differential Equations (156)	17	2
Physics (180)	17	3
Physical Laboratory (181)	17	6
Topographical Surveying (164)	17	5
Geology (221)	17	2
Stereotomy (300)	17	3
Shop Work (232, 233, 234)	8	44

COURSE IN CIVIL ENGINEERING

Junior Year

First Term

Subjects	Weeks	Periods per Week
Christian Doctrine (102)	17	2
Applied Mechanics / Strength of Materials (161)	17	8
Machine Design (173)	17	4
Stresses (301)	17	6
Railroad Engineering (303)	17	5
Electrical Engineering Laboratory (305)	17	3
Surveying (163)	17	2

Second Term

Christian Doctrine (102)	17	2
Applied Mechanics / Strength of Materials (161)	17	8
Machine Design (173)	17	4
Hydraulics (306)	17	5
Graphic Statics (302)	17	5
Practical Astronomy and Geodesy (307)	17	4
Railroad Engineering (303)	17	5
Electrical Engineering Laboratory (305)	17	3

COURSE IN CIVIL ENGINEERING

Senior Year

First Term

Subjects	Weeks	Periods per Week
Christian Doctrine (103)	17	2
Economics (106)	17	2
Philosophy: Logic (104)	17	2
Prime Movers (308)	17	2
Masonry (309)	17	5
Theory of Structures: Bridges and Similar Structures (310)	17	8
Hydraulic and Sanitary Engineering (311)	17	5
Railroad Engineering (304)	17	1

Second Term

Christian Doctrine (103)	17	2
Philosophy: Psychology (105)	17	2
Prime Movers (308)	17	4
Highway Engineering (312)	17	1
Theory of Structures: Bridges and Similar Structures (310)	17	8
Hydraulic and Sanitary Engineering (311)	17	4
Railroad Engineering (304)	17	4

COURSE IN MECHANICAL ENGINEERING

The course in Mechanical Engineering is so designed as to give the student a thorough training in Mathematics, Physics and Applied Mechanics. Then by means of lectures, laboratory work and drafting room work the student is made familiar with the various problems that confront the mechanical engineer.

As a certain amount of training in the Mechanical Arts is necessary for the intelligent and successful designing of machinery, the student is given exercise in the use of shop tools, in pattern work, foundry practice, forging and machine tool work.

Throughout the course special attention is given to develop in the student habits of observation, precison, initiative and industry. Particular stress is laid upon the systematic reading of current technical publications.

Dayton, the home of the National Cash Register Company and the city of a thousand factories, offers unusual advantages for visits of inspection to manufacturing establishments and power plants. After each such visit the student is required to draw up a detailed critical report.

COURSE IN MECHANICAL ENGINEERING

Freshman Year

First Term

Subjects	Weeks	Periods per Week
Christian Doctrine (100)	17	2
English (110, 111)	17	2
French (120)	17	3
Scientific German (125)	17	2
Higher Algebra (151)	17	5
Trigonometry (150)	17	5
Descriptive Geometry (170)	5	8
Mechanical Drawing (171)	12	8
Qualitative Chemistry (201)	17	3
Qualitative Analysis (202)	17	3
Use of Calculating Machines.		

Second Term

Christian Doctrine (100)	17	2
English (110, 111)	17	2
French (121)	17	3
Scientific German (125)	17	2
Higher Algebra (151)	17	4
Descriptive Geometry (170)	17	8
Analytical Geometry (152)	17	5
Qualitative Chemistry (201)	17	2
Qualitative Analysis (202)	17	4
Shop Work (230, 231)	8	44

COURSE IN MECHANICAL ENGINEERING

Sophomore Year

First Term

Subjects	Weeks	Periods per Week
Christian Doctrine (101)	17	2
English (112, 113)	17	2
French (122)	17	3
Machine Drawing (172)	17	5
Calculus (153)	17	5
Vector Analysis (155)	17	1
Physics (180)	17	3
Physical Laboratory (181)	17	6
Surveying (163)	17	5

Second Term

Christian Doctrine (101)	17	2
English (112, 113)	17	2
French (123)	17	3
Machine Drawing (172)	17	5
Calculus (154)	17	5
Vector Analysis (155)	17	1
Differential Equations (156)	17	2
Physics (180)	17	3
Physical Laboratory (181)	17	6
Shop Work (232, 233, 234)	8	44

COURSE IN MECHANICAL ENGINEERING

Junior Year

First Term

Subjects	Weeks	Periods per Week
Christian Doctrine (102)	17	2
Applied Mechanics / Strength of Materials (161)	17	8
Machine Design (173)	17	4
Thermodynamics (158)	17	2
Mechanical Laboratory (313)	17	4
Metallurgy of Iron (332)	17	1
Steam Engineering (330)	17	3
Engine and Boiler Design (331)	17	6
Electrical Engineering Laboratory (305)	17	3
Inspection Visits.		

Second Term

Christian Doctrine (102)	17	2
Applied Mechanics / Strength of Materials (161)	17	8
Theoretical Mechanics (160)	17	5
Machine Design (173)	17	10
Hydraulics (306)	17	2
Steam Power Plants (333)	17	4
Electrical Engineering Laboratory (305)	17	3
Inspection Visits.		

COURSE IN MECHANICAL ENGINEERING

Senior Year

First Term

Subjects	Weeks	Periods per Week
Christian Doctrine (103)	17	2
Economics (106)	17	2
Philosophy: Logic (104)	17	2
Gas Power Plants (334)	17	2
Dynamics of Machines (335)	17	2
Mechanical Laboratory (313)	17	6
Power Machinery (336)	17	11
Electrical Laboratory (305)	17	3

Second Term

Christian Doctrine (103)	17	2
Philosophy: Psychology (105)	17	2
Economics (106)	17	2
Hydraulic Motors (337)	17	2
Rapid Production Machinery (338)	17	1
Pumps and Compressors (339)	17	2
Heating and Ventilation (340)	17	1
Mechanical Laboratory (313)	17	7
Power Machinery Design (336)	17	11

Inspection Visits.

SUBJECTS OF INSTRUCTION

100. Moral. Freshman Year. One and One-half Hours a Week.

Nature and Distinction of Laws; Conscience; Sin; Virtue; Precepts of the Decalogue; Forms of Worship; Oaths and Vows; Obligation of Hearing Mass; Suicide; Murder; Scandal; Dueling; Duty and Right; Violation of Rights; Restitution; Contracts; Fraud; Lying; Detraction; Calumny; Violation of the Secret; Commandments of the Church; Fasting and Abstinence; Laws of Marriage; Christian Perfection; Evangelical Counsels; States of Life; Vocation. The Sacraments: Confession, Holy Communion, Holy Orders, Matrimony. Feasts, Ceremonies and Religious Practice of the Church.

101. Dogma. Sophomore Year. One and One-half Hours a Week.

The Holy Religion; God, His Essence and Attributes; Blessed Trinity; Creation of the World; the Angels; Man; Original Sin; the Incarnation; Jesus Christ in the Prophecy, on Earth, in Glory; the work of Jesus Christ; Grace; Merit; Essence and Existence of the Sacraments; Effects and Efficacy of the Sacraments; Indulgences; Virtue; Last Four Things.

102. Apologetics. Junior Year. One and One-half Hours a Week.

Religion, Revelation, Function of Reason in matter of Faith.

Historical value of the Sacred Scriptures. The Pentateuch; the Pentateuch and Science—Geology, Astronomy, Biology, Paleontology. The Bible and modern discoveries in Egypt, Assyria, and Chaldea. Historical value of the Gospels.

Demonstration of the Divinity of the Christian religion. Miracles and Prophecies, Phenomenon of Hypnotism. Ten proofs of the Divinity of the mission of Jesus Christ and His work, the establishment of the Christian Religion. Christianity and Buddhism, Christian Science and Faith Cure. Truth of the Catholic Religion. (1) The Roman Catholic Church possesses the four positive marks of the true Church. Protestantism: The Original Schismatic Church. Prerogatives conferred by Jesus Christ upon the Church. (2) Accusations brought against the Church. Intolerance; the Vicious Circle; the Inquisition; Gallileo; Massacres of St. Bartholomew; Crusades; Wars of Religion; Revocation of the Edict of Nantes; Temporal Power of the Popes; Authority of the Popes in the Middle Ages; Bad Popes; the Church and Civilization.

103. Rational Theology. Senior Year. One and One-half Hours a Week.

1. Definition and scope. Relation to Dogmatic Theology. The Existence of God. Necessity of demonstrating the existence of God. Demonstration; arguments from motion, contingency, causality, axiomatic truths, duty, moral sanctions, relativity, design; ontological argument. Atheism: Idealistic Atheism, Materialistic Atheism, Practical Atheism, Religious and Moral Consequences of Atheism.

2. Nature and Attributes of God. Manner of Determining the Attributes of God; the Essence of God, and His metaphysical attributes, simplicity, perfection; idea of the infinite; immutability, eternity, unity, omnipresence. Moral attributes of God or the divine personality; God's knowledge; divine knowledge and human knowledge; divine knowledge and human liberty; divine will. Pantheism among the ancients; in the Middle Ages. Modern Pantheists, Spinoza's theory of substance, Fichte, Shelling, Hegel, Anthropomorphism.

3. Creation and Evolution. Creation according to St. Thomas; evolution according to the Fathers; evolution and the Bible.

104. Logic. Senior Year. First Term. Two Hours a Week.

General Introduction; Object of Logic; Divisions of Logic; Plan of Logic.

Formal Logic: On Concepts and Terms; The Proposition; The Syllogism.

Applied Logic or Methodology: On Method in General; Demonstration; Mathematical Demonstration; Method of the Physical Sciences; Method of the Natural Sciences; Method of the Moral Sciences; Errors and Sophisms; Truth and Science; The Principal Scientific Hypotheses.

105. Psychology. Senior Year. Second Term. Two Hours a Week.

Object of Psychology: The Facts of Consciousness; The Faculties of the Soul; The Soul; Method of Experimental Psychology.

Treatise on Sensibility: Sense Perception; Consciousness of Sensations; Pleasure and Pain; The Mental Image; The Memory; Associations of Ideas; Instinct; Appetency and Passion; The Motor Faculty.

Treatise on the Intellect. Attention; Abstraction; Generalization; Conception; Judgment; Reasoning; First Principles.

Treatise on the Will: Nature of the Will; Moral Liberty; Determinism.

106. Economics. Senior Year. One Term. One Hour a Week.

Essential elements of the abstract theory of Economics; application, exemplifications of the theory; money, banking, transportation, international trade; monopoly; legal aspects of specifications and contracts.

110. English. General Composition. Freshman Year. Two Terms. One Hour a Week.

The object of this course in General Composition is to enable the student to acquire clearness and precision in written discourse. Instruction is given in Exposition, Narration, Argument, and Description, and is carried on by means of lectures and frequent conferences in which students receive individual criticism of their themes. In addition several lengthy essays are required, these to be based on the work done in the various departments.

Reading Course: As direct acquaintance with literary masterpieces makes for culture, a list of titles of some 12 standard English authors is given to each student at the beginning of the year. No study or analysis is attempted, the object being to lead the students to appreciate the charm of the best literature and to form the habit of reading good books.

111. Pubic Speaking. Freshman Year. Two Terms. One Hour a Week.

The course covers the principles of oratory and of the several forms of public speaking. In the second term, special emphasis is laid on the application of these principles by embodying them in oral reviews and criticisms based on editorials, articles in scientific periodcals, etc. A study is made of parliamentary rules that govern public meetings, the duties of toastmaster, and chairman, and all manner of extemporaneous speaking. Frequent debates on economic, political and social questions are held.

112. Engineering Writing. Sophomore Year. Two Terms. One Hour a Week.

Preparation of Engineering Papers. Mechanical Details of the various forms of Technical Writing. Essentials of Business Letters: Letters of Application, Giving Instruction, of Inquiry, of Invitation, Containing Quotation of Prices, Information on Contracts, Orders for Goods, etc. Scope and Importance of Reports in the work of the Engineer. Articles for Technical Journals: Short Articles—Editorials, Summaries and Abstracts, Book Reviews, Explanations of New Inventions; Longer Articles—Detailed descriptions of Installation of Plants, Solution of Engineering Problems, etc. Preparation of Manuscription and Correction of Proof.

113. Reading Course. Sophomore Year. Two Terms. One Hour a Week.

At the beginning of both terms each student is given a list of 12 standard American authors, due consideration being given to the more prominent present-day masters of prose and verse.

120. French. Freshman Year. First Term. Three Hours a Week.

Elementary Grammar, Pronunciation, written exercises. Based on Syms' First Year French.

121. French. Second Term. Three Hours a Week.

Continuation of work done during the First Semester; reading of simple French short stories; study of simple memory selections; conversation.

Collateral Reading: Fables Choisies de La Fontaine. Les Plus Jolis Contes des Fèes (Lazare).

122. French. Sophomore Year. First Term. Three Hours a Week.

Advanced Grammar; written exercises; conversation; continuation of reading and memory selections of the first year.

Based on Syms' Third Year in French.

Collateral Reading: Aldrich and Foster's French Reader. Fleurs de France. Contes de Daudet.

123. French. Second Term. Three Hours a Week.

Continuation of the work of the preceding semester.

Syms' Third Year in French is completed; a general review of French Grammar is made and exercises in French Composition are made weekly.

Collateral Reading: Choix de Contes Contemporains. Contes Choisis de J. Lamaitre. Contes Choisis de Rene Bazin. Plays selected from Labiche and Legouve.

125. Scientific German. Freshman Year. Two Terms. Two Hours a Week.

The course presupposes the ability to read easy narrative prose at sight. The object of the instruction is to prepare the student to make practical use of scientific treatises and periodicals for the purpose of investigation. Translations of scientific articles in German publications are made a feature of this course.

130. Spanish. Junior Year. Two Terms. Two Hours a Week.

Garner, Spanish Grammar. Course in elementary Spanish. Stress laid on pronunciation and conversation.

Translation of easy tales from Trueba; select fables of Samaniego.

150. Trigonometry. Freshman Year. First Term. Five Hours a Week.

Trigonometric Functions: Variations of Trigonometric Functions; Functions of the Sum and Difference of Arcs; Functions of Multiple Arcs; Inverse Functions; Solution of Triangles; Application of Trigonometry to the Solution of Quadratic Equations; Moivre's Theroem; Trigonometric Equations and Identities; Trigonometric Series; Miscellaneous Problems.

151. Higher Algebra. Freshman Year. First Term. Five Hours a Week.

Theory of Quadratic Equations; Theory of Exponents; Radicals; Theory of Numbers. Imaginary Quantities; Complex Numbers; Mathematical Induction; Permutations and Combinations; Determinants, Convergency, and Summation of Series; Binomial Theorem; Theory of Equations; Sturm's Theorem; Horner's Method of Solving Numerical Equations.

152. Analytic Geometry. Freshman Year. Second Term. Five Hours a Week.

Analytic Geometry of Two and Three Dimensions; Various Systems of Coordinates; Loci Problems; Study of the Line; the Circle; the Parabola; the Ellipse; the Hyperbola; Tangents; Normals; General Equation of the Second Degree; Higher Plane Curves; Surfaces of Revolution.

153. Differential Calculus. Sophomore Year. First Term. Four Hours a Week.

Theory of Functions; Differentiation of Algebraic and Transcendental Forms; Implicit Functions; Expansion of Functions by Taylor's and Maclaurin's Theorem; Indeterminate Forms; Partial Differentiation; Direction of Curves; Tangents and Normals; Asymptotes; Multiple Points; Study of Curvature; Involutes and Evolutes; Envelopes; Maxima and Minima.

154. Integral Calculus. Sophomore Year. Second Term. Three Hours a Week.

Elementary Forms of Integration; Integration of Rational Fractions; Integration by Parts; Trigonometric Integrals; Integration as a Summation; Application of Integration to Plane Curves; Volumes of Revolution; Double Integration; Moments of Inertia; Surface and Volume of any Solid.

155. Vector Analysis. Sophomore Year. First and Second Terms. One Hour a Week.

Elementary Operations of Vector Analysis. Composition and Decomposition of Vectors; Unit Vector; Vector Equations of the Straight Line and Plane; Centroids; Scaler and Vector Products; Line Integral; Surface Integral; Vector and Scaler Products of Three Vectors; Circle and Sphere;

Differentiation of Scaler and Vector Products; Tangents and Normals; Curvature; Equations of Surfaces; Partial Differentiation; The Differential Operator (Del).

156. Differential Equations. Sophomore Year. Second Term. Two Hours a Week.

Formation of a Differential Equation; Equations of the First Order and of the First Degree; Equations of the First Order, but not of the First Degree; Singular Solutions; Linear Equations; Linear Equations with Variable Coefficients; Equations of the Second Order; Equations with more than Two Variables; Partial Differential Equations.

157. Theory of Mechanism. Junior Year. First and Second Terms. One Hour a Week.

The geometry of machinery, showing the laws which govern the velocities of the moving parts and the correct forms for gear-teeth, cams, and link motions.

158. Thermodynamics. Junior Year. Second Term. Two Hours a Week.

The principle of the Conservation of Energy. The general laws of thermodynamics as applied to perfect gases, super-heated vapors, etc.; isothermal and adiabatic expansion. Carnot's Principle; Application of the principle especially in connection with the study of the steam engine.

160. Theoretical Mechanics. Junior Year. First and Second Terms. Five Hours a Week.

Kinematics: Linear, Plane, Spherical, Screw Motions; Velocity; Acceleration; Angular Acceleration.

Dynamics: Mass; Moments of Mass; Centroids; Momentum; Force; Energy.

Statics: Concurrent Forces; Parallel Forces; Theory of Couples; Principles of Virtual Work.

Kinetics: Impulses; Impact of Homogenous Spheres; Rectilinear, Free Curvilinear and Constrained Motions of a Particle; Kinetics of Rigid Bodies.

161. Applied Mechanics and Strength of Materials. Junior Year. First and Second Terms. Three Hours a Week.

The Physical Qualities of Materials of Construction; the Study of Stresses and Strains in the same. Safe Limit of Elasticity; Modulus of Elasticity; Experiments in Tension; Compression, Shearing, Torsion, Special Problems in Flexure of Beams.

Construction of Strength of Arches; Graphical Method for Arch-Ribs of Hinged Ends and of Fixed Ends; Stress Diagrams; Temperature Stresses; Braced Arches.

162. Hydraulics. Senior Year. Second Term. Two Hours a Week.

Fluid Pressure in Tanks and Reservoirs; Earth Pressure and Retaining Walls; Steady Flow of Liquids through Pipes and Orifices; Coefficient of Friction of Water in Pipes; Loss of Head due to Elbows, Bends, Valve-Gates, and Throttle-Valves.

163. Surveying. Sophomore Year. First Term. Five Hours a Week.

Chain Surveying: Measurements of Distances; Use of Chain and Tape; Stadia Wires; Area or Contents of Ground.

Compass Surveying: Surveyor's Compass; Correction of Local Attraction; Field Notes; Variation of Needle in Declination; Area or Contents of Ground.

Transit Surveying: Study of the Transit; Measurements of Angles; Ranging of Lines; Farm Surveying; Laying out and Dividing of Land.

Leveling: Study of the Y Level; Use of Leveling Rod; Section Leveling; Cross-section Leveling; Computation of Earthwork.

164. Surveying. Sophomore Year. Second Term. Five Hours a Week.

Topographical Surveying: Definitions and Principles; Shading and Delineation; Topographical Signs; Mapping Contour Lines.

Railway Curves: Definition and Principles; Location of Curves; Laying off Ordinates; Reversed and Compound Curves.

165. Astronomy. Three Hours a Week.

The Earth; The Observatory; Refraction; The Sun; The Solar System-Parallax; Determination of the First Point of Aries; Precession; Nutation and Aberration; Navigation; Fixed Stars; Spectrum Analysis; Masses of Heavenly Bodies.

170. Descriptive Geometry. Freshman Year. Second Term. Eight Hours a Week.

Elementary Principles; Notation; Problems Relating to the Point, Line and Plane; Principles and Problems Relating to the Cylinder, Cone and Double Curved Surface of Revolution; Intersection of Planes and Solids; Development of Solids; Intersection of Solids; Miscellaneous Problems.

171. Mechanical Drawing. Freshman Year. First Term. Eight Hours a Week.

Use of Drawing Instruments; Lettering; Conic Sections; Projection Drawing; Intersection of Planes and Solids; Intersection of Solids.

Drawing of the second term is taken in connection with the course of Descriptive Geometry outlined above.

172. Machine Drawing. Sophomore Year. First and Second Terms. Five Hours a Week.

This course is intended to give general information on simple machine details, such as bolts, screws, springs, keys, flanges, pipe fittings, valves, etc. Great attention is given to the reading of blueprints.

173. Machine Design. Junior Year. First and Second Terms. Three Hours a Week.

This course is intimately connected with the several departments of engineering. Freehand sketching from machine parts and models are made, and the transferring of the sketchings into Machine Drawings is required. It is the aim of the course to teach the student to make complete sets of working and assembly drawings for special machines, by applying all the principles acquired in the class room and the shops.

180. Physics. Sophomore Year. First and Second Terms. Three Hours a Week.

The aim of this course is to furnish all the knowledge of physics required in the technical courses of the Engineering Department. The subjects consdered are general mechanics, molecular mechanics, wave motion, electricity, magnetism, sound and optics. These topics are discussed both mathematically and experimentally, while the historical and descriptive aspects are not overlooked. The physical principles and the applications thereof are very fully illustrated by an extensive series of lecture-table demonstrations and lantern projections.

181. Physical Laboratory. Sophomore Year. First and Second Terms. Six Hours a Week.

The work in the Physical Laboratory is from the beginning exclusively quantitative. It is so mapped out as to teach the student to make accurate measurements, to impart dexterity in the manipulation of instruments, and to give practice in properly noting, interpreting, and reducing experimental data. The student at the same time gets a clear understanding of the principles of Physics that he has learned in the lecture-room.

The following questions are treated in the laboratory: Uniformly accelerated motion; force proportional to rate of change of momentum; composition and resolution of forces; the principle of work; energy and efficiency; the laws of impact; elastic impace; coefficient of restitution; elasticity; Hook's law; Young's modulus; the coefficient of rigidity; moment of inertia; simple harmonic motion; determination of "g"; the law of centripetal force; Boyles' law; density of air; the measurement of temperature; law of Avogadro;

densities of gases and vapors; the pressure-temperature curve of a saturated vapor; hygrometry; Archimedes' principle; capillarity; calorimetry; expansion.

Magnetic and electric fields of force; determination of the strengths of magnetic fields and magnetic poles; measurement of electric currents; measurement of potential difference; measurement of resistance; temperature coefficient of resistance; specific resistance; galvanometer constant of a moving-coil galvanometer; absolute measurement of capacity; comparison of capacities, determination of dielectric constants, and the ratio of the electro-static and electro-magnetic units; electromotive force and internal resistance; comparison of electromotive forces; electro-magnetic induction; constants of the earth's magnetic field; self-induction; magnetic induction in iron; electrolytic conduction; velocity of sound in air; musical properties of air chambers; longitudinal vibrations of rods; waves in strings; diffraction of sound and light waves; diffraction grating; refraction of light; total reflection; dispersion and spectra; polarized light; radio-activity.

185. Electrical Measurements and Measuring Instruments. Junior and Senior Years. First and Second Terms. Three Hours a Week.

The aim of this course is to set forth the theory of electrical measurements, the theory and mechanical construction of the instruments used, the degree of precision attainable, and the possible sources of error. The course likewise includes a systematic round of laboratory exercises in electricity and magnetism. The principal questions handled are the following: The determination of resistance by the various methods, insulation tests, comparisons of electromotive forces by the method of compensation, use of the potentiometer the various forms of voltameters, the calibration and correction of voltameters, ammeters, and wattmeters; storage battery tests, use of the electrometer, measuring and comparison of capacities and coefficients of self-induction, mutual induction, laws of the electromagnet, measurement of induction, use of the bismuth spiral and magnetic balance, the determination of the permeability of iron, hysteresis tests, etc.

Besides these electro-magnetic measurements, there is likewise a series of photometric measurements on incandescent and arc lamps with the Bunsen, Lummer-Brodhum, Martens, Weber, Polarisation and Integrating photometers.

The students are required to hand in written reports of their work in the laboratory, accompanied with standard diagrams of connections, and graphs showing the results of their tests.

186. Dynamo Electric Machinery. Junior Year. First and Second Terms. Three Hours a Week.

This course embraces a study of Ohm's law and Kirchhoff's laws and various applications thereof; a study of electro-magnets and the magnetic properties of iron; the theory, construction, and characteristics of series, shunt and compound generators, and the theory of commutation; parallel operation, speed control of motors, as also a discussion of the principles that underlie generator and motor testing.

187. Theory of Alternating Currents and Alternating Current Machinery. Senior Year. First and Second Terms. Three Hours a Week.

This course comprises a study of the mathematical theory of alternating current phenomena. In the developments both vectorial and analytical methods are used. The general notions of harmonic functions are applied to alternating current circuits. A detailed study is made of circuits containing impedances and capacities in series and parallel; of the measurements of power in single phase and polyphase circuits.

In this course likewise a study is made of the construction, principles of operation and behavior of single and polyphase generators and motors, the transformer, induction motor, the synchronous motor and the rotary converter.

188. Electrical Laboratory. Junior Year. First and Second Terms. Five Hours a Week.

The work in the electrical laboratory includes the taking up of the characteristic curves of direct current machines to study their performance; the determination of the armature reaction; the making of efficiency, regulation, and heat tests; the determination of the torque of motors; a study of the various methods of operating generators and motors and their auxiliary control apparatus.

189. Electrical Laboratory. Senior Year. First and Second Terms. Five Hours a Week.

The work includes the study of circuits possessing inductance and capacity, the study of alternators, synchronous motors, rotary converters, transformers, frequency changes, and meters; the use of the oscillograph and Braun's tube; the analytical presentation of the curves found experimentally. To this is added a study of high voltage phenomena and the determination of the dielectric strength of insulating materials.

190. Electric Distribution and Control. Senior Year. Second Term. Three Hours a Week.

This course embraces the design and calculation of circuits for the distribution of power by direct currents; a study of distribution-systems, regulating apparatus, and

storage batteries. Alternating current transmission and distribution is next considered, particular attention being given to high tension transmission, including the installation and operation of high tension systems.

191. Electrical Design. Senior Year. First and Second Terms. Five Hours a Week.

In this course every student is required to complete an original design of each of the following types of electromagnetic machinery: a lifting electro-magnet, a magnetic clutch or system of electrical manipulation; a direct current generator or motor; an alternating current generator or synchronous motor; an induction motor; a transformer.

192. Excursions. Senior Year. Second Term.

Visits of inspection are made to various power and industrial plants in and about Dayton. Occasionally a more extended trip is made to some large industrial center. Formal reports, on such inspection trips, are required.

193. Seminar. Senior Year. First and Second Terms. One Hour a Week.

Several times a month the students and department instructors meet for the purpose of considering the more important articles appearing in the current electrical and technical journals. Abstracts of articles are prepared and read by the students. The reading is followed by a general discussion. At the meetings, likewise, occasional lectures are given by engineers in active practice upon subjects with which they are especially familiar.

194. Electrical Machine Construction. Junior Year. Practice Term.

In this course the students are given practice in winding fields and armatures, assembling the parts of motors, generators and transformers, and making a running test.

195. Telephony and Telegraphy. Senior Year. First Term. Two Hours a Week.

This course comprises a study of the theory and construction of telephone and telegraph apparatus and the applications thereof to the more common circuits used in local and long distance substations and central offices, and private branch exchanges. Methods of combining telephone and telegraph lines are likewise considered. A thorough study is made of Morse repeaters, duplex sets, simplex and composite sets, etc. Finally the student is given a thorough understanding of the construction and operation of the Automatic Switchboard system.

201. Qualitative Chemistry (Lecture Course). Freshman Year. First Term. Two Hours a Week.

A lecture course, fully illustrated, in which the metallic elements are studied from the standpoint of their analytical classification, going into details regarding their reactions with the typical reagents. Acid analysis is also taken up and the problems of qualitative analysis are considered in their various phases.

202. Qualitative Analysis (Laboratory Course). Freshman Year. First Term. Four Hours a Week.

The student is required to separate and to identify the various metallic and non-metallic elements, inorganic and common organic acids contained in materials of graded complexity.

203. Qualitative Analysis (Laboratory Course). Freshman Year. Second Term. Four Hours a Week.

The work under 202 is continued and completed, with special reference to full qualitative identification of complex minerals and alloys.

204. Quantitative Analysis. Sophomore Year. First Term. Seven Hours a Week.

This course provides a training in the accepted methods of quantitative analysis and follows courses 202 and 203. The work includes the gravimetric estimation of such metals as aluminum, copper, calcium, the halogens, sulphur and nitrogen, and the components of common alloys.

205. Quantitative Analysis. Sophomore Year. Second Term. Seven Hours a Week.

The work assigned is a continuation of the course 204 and introduces the student into the methods of calibration of apparatus, acidimetry, alkalimetry, oxidation, reduction and precipitation methods. Application of these are made as the student advances in the stages of his work.

206. Electrochemistry. Junior Year. Second Term. Four Weeks. Five Hours a Week.

A laboratory course designed to acquaint the student with the quantitative determination of metals electrolytically, utilizing the stationary and rotating electrodes and other modifications of modern practice.

207. Technical Analysis. Junior Year. Seventeen Weeks. Six Hours a Week.

Special problems of current industrial practice are attacked. In this connection, the analysis of iron, steel, coal, water and gas are taken up.

208. Organic Chemistry. Junior Year. Thirty-four Weeks. Three Hours a Week.

Part I.—A course of lectures and recitations in which the general principles and theories of Organic Chemistry are treated with special reference to the Aliphatic Series. Attention is constantly drawn to such specific compounds as are of technical, medicinal, or theoretical importance.

Part II.—A lecture and recitation course, in which the Benzene Series is treated. As in Part I., the scientific development of the subject is always accompanied by demonstrations.

209. Organic Practice. Senior Year. Two Terms. Twelve Hours a Week.

The student is made familiar with the operations and apparatus involved in organic work, such a fractional distillation, extraction, crystallization, steam distillation, determination of melting and boiling points, and with various methods of preparation (etherification, saponification, nitration, sulphonation, diazotization, etc.). He prepares a prescribed number of typical organic products of synthetic and commercial interest. Accompanying this synthetic feature, the analytic methods (qualitative and quantitative) peculiar to organic chemistry are taken up and thoroughly mastered.

210. Chemical Technology. Junior Year. Second Term. Senior Year. First Term. Two Hours a Week.

This course consists of lectures and recitations upon the more important technical chemical processes. Much attention is given to the general operations common to many industries and to the details of various types of apparatus used for carrying on the processes of crushing, lixiviation, filtration, distillation, etc. Charts, models, and a large collection of samples are employed as aids.

211. Physical Chemistry. Senior Year. Two Hours a Week.

In this course the fundamental laws and theories of chemistry are studied from the standpoint of their historical development, together with the discussion of the principles and applications of thermo-chemistry. Chemical dynamics and statics and the modern theories of solution are discussed, reference being continually made to original literature.

Laboratory work includes vapor density and molecular weight determinations according to the classical methods, etc.

212. Seminar Students of the Junior and Senior Years meet in informal conference with the instructors and discuss prepared papers and reviews of selected topics from current chemical literature.

213. Special Lectures by practicing industrial chemists and engineers will be arranged for to be given at stated periods.

214. **Inspection Visits** to local and neighboring establishments will help to familiarize the students with the actualities of chemical industry.

220. Mineralogy. Sophomore Year. First Term. Two Hours a Week.

A course of lectures and recitations is given on general and special mineralogy. The crystallographic, physical and chemical properties of the more important minerals are dwelt upon at length. Laboratory work, in which crystallographic models and natural crystals are put into the hands of the student, supplements the lectures. Other minerals are given for identification, thus bringing him into contact with a wide range of material. The College museum mineral collection is always open to students.

221. Geology. Sophomore Year. Second Term. Two Hours a Week.

The principles of dynamic, structural, physiographical and historical geology are presented in a series of lectures and recitations, supplemented by specimens furnished by the College Museum.

230. Carpentry and Wood-Turning.

The object of the work is a thorough training in the adjustment, use, and sharpening of the ordinary wood-working tools. The exercises in carpentry include sawing, planing; chiseling, including chamfering, grooving, and plain moulding work; framing, including tenoning, splicing, mortising, and fitting braces; use of moulding planes; nailing, dove-tailing; gluing; and the proper use of sandpaper.

The exercises in Wood-Turning include systematic instruction in the use of the wood lathe in center and chuck turning and careful training in the use of turning tools, such as gouges, turning chisels, nosing tools, right and left side tools, parting tool, calipers and dividers.

231. Patternmaking.

Under this subject the student is taught the construction from working drawings of patterns for some machine involving the operations of laying up, gluing, turning, carving, and making core boxes.

232. Forging.

This course includes instruction in the building and care of fires, heating, drawing, forming, bending and twisting, upsetting while bending, upsetting for square corners, punching, bolt-making, chamfering, welding, the making and use of heading tools, chain making, the making and fitting of braces, the construction of hooks and ring bolts, riveting and the use of threading tools.

233. Foundry Work.

The exercises include instruction in tempering the sand and making green moulds for small work. This is followed by exercises in core-making and an explanation of loam work. Machine, floor, and sweep moulding are briefly discussed. Students are likewise taught to attend the cupola furnace.

234. Machine Shop Practice.

The students are given instruction and practice in chipping chamfers, flat, concave and convex surfaces, keyways and "chipping to shoulder." This is followed by exercises in filing, beginning with the names and classification of files, a discussion of the "cut" tooth angles, and uses of each form, and methods of holding and operating. The instruction covers methods of holding and "laying out" work, cross filing, draw filing, free-hand filing, production of flat surfaces, surfaces at right angles, parallel surfaces, chamfering, filing to template, use of the hack-saw, fitting, including parallel, drive and slide fits, finishing and polishing.

Chipping and filing are followed by metal turning, including lathe work, drilling, planing and milling.

300. Stereotomy. Sophomore Year. Second Term. Three Hours a Week.

In this course the student is taught to apply the principles of Descriptive Geometry to the making of drawings for masonry structures such as piers, culverts, intersecting arches and walls, abutments, etc.

301. Stresses. Junior Year. First Term. Six Hours a Week.

Under this heading is included a study of the fundamental principles governing the distribution of stresses in the different members of framed structures subjected to known external loads; the investigation of roof and bridge trusses for the purpose of determining their probable load, and finally the determination of the maximum stress and distortion in the different members due to such loads.

302. Graphic Statics. Junior Year. Second Term. Five Hours a Week.

This course deals with the graphical method of determining stresses in structures and the accompanying deformation.

303. Railroad Engineering. Junior Year. First and Second Terms. Five Hours a Week.

This course includes class room recitations, field practice and drawing room work. The class room work covers a description of the various methods of railroad location, the mathematics of curves and the computation of earthwork.

The field work consists of a complete railroad survey. In the drawing room the student prepares the necessary maps and profiles of the location survey, earthwork diagrams, mass diagrams, and switch layouts.

304. Railroad Engineering. Senior Year. First Term. One Hour a Week. Second Term, Three Hours a Week.

This course includes lecture and drawing room work in organization, construction and maintenance, methods of handling earth and rock, tunneling, track laying, design of yards, street railways, etc.

305. Electrical Engineering Laboratory. Junior Year. First and Second Terms. Three Hours a Week.

A course of laboratory exercises designed to familiarize the student with the elements of technical measurements and with the characteristics and operation of the ordinary types of electrical machinery.

306. Hydraulics. Junior Year. Second Term. Five Hours a Week.

Deals with the fundamental principles of hydrostatics and hydrodynamics together with some of their applications to general hydraulics. Some of the topics discussed are: fluids and their properties; pressure, conditions of equilibrium; fluids in motion; discharge from orifices, flow over wires and through pipes; flow of water in open channels; energy and reaction of jets; pressure of water on curved vanes, and the essential principles of hydraulic motors.

307. Practical Astronomy and Geodesy. Junior Year. Second Term. Four Hours a Week.

In this course are treated the figure of the earth, methods of conducting a geodetic survey, including the measurement of base lines, triangulation, precise leveling, and methods of determining azimuth, latitude, longitude and time.

308. Prime Movers. Senior Year. First Term, Two Hours a Week. Second Term. Four Hours a Week.

Includes a descriptive and critical treatment of power-plant equipment and operation.

309. Masonry. Senior Year. First Term. Five Hours a Week.

This course includes a study of foundations in different soils, description of various classes of masonry and their uses in arches, dams, footings, buildings, bridge abutments and piers, retaining walls and culverts. Considerable prominence is given to reinforced concrete. Much of the time is devoted to the designing and preparation of plans for various masonry structures.

310. Theory of Structures. Bridges and Similar Structures. Senior Year. First and Second Terms. Eight Hours a Week.

Discusses the methods of making beams, columns, and ties from the structural materials; the combination of these elements to form buildings, bridges, viaducts and cranes. In the drawing room the student prepares strain sheets, general and detail plans, bills of materials and estimates. During the second term a study is made of standpipes, high office buildings, arches, cantilevers, continuous suspension and movable bridges, and the stresses to which they are subjected.

311. Hydraulic and Sanitary Engineering. Senior Year. First Term, One Hour a Week. Second Term, Four Hours a Week.

This course deals with the practical application of theoretical mechanics to water, sewerage, water power, and irrigation. Under the heading of sanitary engineering are studied the various problems involved in street cleaning, garbage collection and disposal, and other topics relating to public health.

312. Highway. Engineering. Senior Year. Second Term. One Hour a Week.

This course covers the location, construction and maintenance of highways, together with the construction and maintenance of street pavements.

313. Mechanical Laboratory. Junior Year. First Term, Four Hours a Week. Senior Year, First Term, Six Hours a Week; Second Term, Seven Hours a Week.

Use and calibration of important measuring instruments. Tests on elements of machines and tests involving pressure and motion of gases and liquids. Investigation of complete machines and appliances involving pressure and flow of water, gas, air and steam. Combustion, heat transmission and the mechanical treatment of steel.

330. Steam Engineering. Junior Year. First Term. Three Hours a Week.

The subject begins with the study of the Zeuner and Bilgram diagrams, with the application of these diagrams to simple slide valves, and gradually embraces the analysis and synthesis of flat, piston, unbalanced, single-ported, and multiported valves, with fixed, shifting and swinging eccentrics; the study of theoretical indicator cards for simple and compound engines, valve ellipse, valve and piston velocity diagrams, link motions, radial gears, Corliss and other trip gears. Moreover, the work covers the analysis of steam distribution in various types of engines, embracing a thorough

discussion of the force involved in the transmission of power from piston to shaft, with a view of determining the weight of fly-wheel for a desired steadiness of motion; fly-wheel design for various purposes; the theory and practice in the design and operation of Corliss, throttling and shaft governors, together with a brief discussion of other methods of governing.

331. Engine and Boiler Design. Junior Year. First Term. Six Hours a Week.

The work includes the complete analysis and design in detail of a high speed center crank engine with a swinging eccentric, a similar design of the valve gear and cylinder for a single eccentric Corliss engine, and the details of the Stephenson link motion as applied to a passenger locomotive; the design of a Corliss engine; the graphical analysis of the forces transmitted from piston to crank shaft; the design of a shaft governor; the design of a return tubular boiler with setting.

332. Metallurgy of Iron. Junior Year. First Term. One Hour a Week.

The theory and practice of iron and steel making; discussing ores, fuels, slags, chemical reactions, and the technical and practical conditions involved in the manufacture of pig iron, wrought iron, malleable iron and various classes of steel.

333. Steam Power Plants. Junior Year. Second Term. Four Hours a Week.

A critical study of steam boilers and furnaces, boiler room equipment, steam engines, steam turbines and condensers. Choice of proper power plant to meet required conditions.

334. Gas Power Plants. Senior Year. First Term. Two Hours a Weeak.

A critical study of gas producers, gas engines, oil engines and accessory equipment.

335. Dynamics of Machines. Senior Year. First Term. Two Hours a Week.

A study of the stresses set up by impact and inertia, as also of vibration and critical speeds.

336. Power Machinery. Senior Year. First Term, Eleven Hours a Week. Second Term, Eleven Hours a Week.

The methods of designing the parts of engines, boilers, turbines and pumps with regard to strength, rigidity, efficiency, wear and cheapness of production and operation. During the second term the student is taught the design and analysis of complete machines and appliances such as engines, ammonia compressors, boilers, pumps, turbines, etc.

337. Hydraulic Motors. Senior Year. Second Term. Two Hours a Week.

A study of impulse wheels and reaction turbines with reference to their proper construction, regulation and testing, and to the various sources of losses in their operation.

338. Rapid Production Machinery. Senior Year. Second Term. One Hour a Week.

A study of lathes, automatic screw machines, milling machines, planers, drills and precision grinders, as also a study of the most economical speeds at which to run tools under varying conditions of material, cut and feed.

339. Pumps and Compressors. Senior Year. Second Term. Two Hours a Week.

In this course are treated the theory, design and construction of reciprocating and centrifugal pumps, blowers and compressors.

340. Heating and Ventilating. Senior Year. Second Term. One Hour a Week.

A study of the various methods of heating and ventilating with due regard to their hygienic value. Investigation of the heat losses in buildings, as also the methods of utilizing the waste heat from power plants for heating purposes.

HIGH SCHOOL AND BUSINESS DEPARTMENTS

Faculty

Rev. Bernard P. O'Reilly, S. M.
President

Rev Joseph A. Tetzlaff, S. M.
Vice-President

Bro. Louis Reimbold, S. M.
Fourth Year High School
Physics, Geometry, German

Rev. Clement Wulf, S. M.
Latin, English

Bro. John Lowekamp, S. M.
History

Bro. William Beck, S. M.
Botany, Zoology

Bro. George Meinzinger, S. M.
Third Year A

Bro. Charles Preisinger, S. M.
Third Year B

Bro. William Wohlleben, S. M.
Chemistry

Bro. Matthias Haas, S. M.
Chemistry, Geometry

Bro. Lawrence Drufner, S. M.
Second Business

Bro. William Haere, S. M.
First Business

Bro. Michael Grandy, S. M.
Second Year A

Bro. Alphonse Mueller, S. M.
Second Year B

Bro. Theodore Pluemer, S. M.
First Year A

Bro. Thomas Price, S. M.
First Year B

Bro. John Gilbride, S. M.
First Year C

Bro. Thomas Mooney, S. M.
Librarian, Religion

Bro. Fred Paff, S. M.
Bro. Thomas Seebold, S. M.
Bro. Joseph Wiesmann, S. M.
Religion

Emil Hocke
Physical Director

HIGH SCHOOL DEPARTMENT

FIRST YEAR

First Term

	Periods
Religion	3
English	5
English Literature	2
German	5
Civil Government	3
Algebra	5
Physical Geography	4
Drawing, Penmanship	2

Second Term

	Periods
Religion	3
English	5
English Literature	2
German	5
*Civil Government	3
Algebra	5
Physiology	4
Drawing, Penmanship	2

SECOND YEAR

First Term

	Periods
Religion	3
Rhetoric, Classics	4
History	2
German	5
Latin	7
Algebra	4
Zoology	4

Second Term

	Periods
Religion	3
Rhetoric, Classics	4
History	2
German	5
Latin	7
Algebra	4
Botany	4

THIRD YEAR

First Term

	Periods
Religion	3
Rhetoric, Classics	4
Latin	5
German	5
History	2
Geometry	5
Chemistry	4
Laboratory Practice	2

Second Term

	Periods
Religion	3
Rhetoric, Classics	4
Latin	5
German	5
History	2
Geometry	5
Chemistry	4
Laboratory Practice	2

FOURTH YEAR

First Term

	Periods
Religion	3
English	4
Latin	5
German	5
History	2
Geometry	4
Physics	4
Physical Laboratory	2

Second Term

	Periods
Religion	3
English	4
Latin	5
German	5
History	2
Geometry	4
Physics	3
Physical Laboratory	2

*Optional, Irish History, 2 periods.

N. B.—Students that attain a satisfactory average in Physical Training are awarded one-fourth credit each year.

Subjects of Instruction

CHRISTIAN DOCTRINE

I Year High School. Deharbe's Large Catechism. Two Periods a Week.

End of Man; Faith, Its Necessity and Qualities; the Twelve Articles of the Creed; the Commandments; Love of God; Love of Self and Neighbor; the Decalogue.

II Year High School. Deharbe's Large Catechism. Two Periods a Week.

Review of the Commandments of God; Commandments of the Church; Sin; Virtue; Grace; Actual and Sanctifying Grace; the Seven Sacraments; the Holy Sacrifice of the Mass; Indulgences; the Sacramentals; Prayer; the Lord's Prayer; the Angelical Salutation; Daily Prayers; the Rosary; Manner of Serving at Mass. Ecclesiastical Year—the Seasons and Festivals.

III Year High School and I Year Business. Deharbe's Full Catechism. Two Periods a Week.

The Commandments; the Love of God; Christian Self-Love, and Love of Our Neighbor; the Decalogue; Veneration and Invocation of the Saints; the Commandments of the Church; Sin; Virtue and Christian Perfection; Grace; Sacraments; the Real Presence; the Mass; Indulgences; Sacramentals; Prayer; Religious Practices and Ceremonies.

IV Year High School and II Year Business. Deharbe's Full Catechism. Two Periods a Week.

End of Man; Faith; God; His Attributes and Perfections; the Trinity; the Creation and Government of the World; the Angels; Our First Parents and Their Fall; Jesus Christ; the Messias, True God and True Man; the Incarnation; Divine Maternity of the Blessed Virgin; the Passion, Death, and Resurrection of Jesus Christ; the Judgment; the Holy Ghost; the Church and Its Marks; Papal Infallibility; the Four Last Things.

Detailed study of the Mass; Sacred Vessels; Vestments, etc.; Sacramentals; Festivals; the Divine Office; Vespers, Compline, Benediction of the Blessed Sacrament; the Liturgical Year.

CHURCH HISTORY

By Rev. B. J. Spalding.

I Year High School. Two Periods a Week.

First Epoch. From Foundation of the Church to Reign of Constantine (A. D. 3-312); Early Church; the Ten Persecutions; the Apologists; Heresies; Progress of the Church.

SECOND EPOCH. From Conversion of Constantine to Fall of the Western Empire (A. D. 312-475). Constantine the Great; Julian the Apostate; Invasion of Barbarians; Heresies —Arianism, Nestorianism; Doctors; Saints and Councils; Monasticism in the East and West.

II Year High School. Two Periods a Week.

THIRD EPOCH. From the Downfall of the Western Empire to the Coronation of Charlemagne (475-800). Conversion of Barbarians, Franks, Visigoths, Anglo-Saxons, Lombards, Teutonic Tribes, Mohammedans; Heresies in the East—Eutychianism, Monothelitism, Iconoclasts; the Church and Civilization; Popes; Bishops; Monachism; St. Benedict.

FOURTH EPOCH. From the Restoration of the Western Empire to Gregory VII. (800-1073). The Church in the Central and Western Europe; Conversion of Northern and Eastern Nations of Europe; the Greek Schism; Feudalism and Investitures.

FIFTH EPOCH. From Gregory the Great to Boniface VIII. (1073-1294). Palestine Under the Mohammedans, the Crusades; Military Orders; Gregory VII.; the Papacy and the Empire; Mendicant Orders; Universities.

III Year High School. Two Periods a Week.

SIXTH EPOCH. From Boniface VII. to the Rise of Protestantism (1294-1517). Ecclesiastical Tribunals; the Albigenses; the Inquisitions; the Action of the Temporal Supremacy of the Popes; the Great Schism of the West; Councils; Heresies; Church Architecture; the Arts; Literature and Science.

SEVENTH EPOCH. From the Rise of Protestantism to the Treaty of Westphalia (1517-1648). Martin Luther; Thirty Years' War; Spread of Protestantism; Calvinism; Huguenots; Massacre of St. Bartholomew; John Knox; Mary, Queen of Scots; Henry VIII.; Effect of Protestantism in England; Elizabeth; James I.; Gunpowder Plot; Council of Trent; Religious Orders; Jesuits; Decline of Protestantism; Discoveries; Missions in Africa; India; Japan; China; America.

IV Year High School. Two Periods a Week.

EIGHTH EPOCH. From the Treaty of Westphalia (1684) to the present day. Church and Monarchies; Louis XIV. and the Church; the Church and Spain; the Church and Austria; infidelity in Europe; the French Revolution; Effort to annihilate the Church; Napoleon and Pius VII.; Revival of Religion; the Church since the Revolution; the Redemptorists; Missions in Europe, the East, Africa, Oceanica, in South and Central America; the Church in the United States.

ENGLISH

I Year High School. Five Periods a Week.

Stebbins: Progressive Course in English; First Year. Practice in composition every week.

Classics:

(*a*) A thorough knowledge of the subject-matter, form, and structure of:

Irving, *Legend of Sleepy Hollow;* Lamb, *Tales from Shakespeare* (2); Hawthorne, *Tanglewood Tales* (2); Dickens, *Christmas Carol* (Scrooge and Marley); Longfellow, *Evangeline;* Goldsmith, *Deserted Village;* Crawford, *Marzio's Crucifix.*

Detailed written work is required.

(*b*) A general knowledge of the substance of six books selected from the following groups:

Group 1. (Two to be selected.) *Life of Henry Clay, Life of Washington, Washington and His Generals, Autobiography of Franklin.* Group 2. (One to be selected.) Cooper, *The Spy;* Dickens, *Christmas Carol,* Group 3. (One to be selected.) Hawthorne, *Tanglewood Tales;* Wm. C. Bryant, *Thanatopsis and Other Poems.* Group 4. (One to be selected.) Lamb, *Tales from Shakespeare;* Irving, *Sketch Book.* Group 5. (One to be selected.) Irving, *Alhambra and Conquest of Granada.*

Written work is required.

Literature: Anglo-Saxon Period; Norman Period; Age of Chaucer; English, Irish and American Literature.

Text: Murray.

II Year High School. Four Periods a Week.

Stebbins: Progressive Course in English; Second Year. Weekly practice.

Classics:

(*a*) A thorough knowledge of the subject-matter, form and structure of:

Longfellow, *Evangeline;* E. A. Poe, *Gold Bug;* Samuel T. Coleridge, *Rime of Ancient Mariner;* William Shakespeare, *Merchant of Venice; Washington's Farewell Address;* Sir Walter Scott, *Lay of the Last Minstrel;* Cardinal Wiseman, *Fabiola.*

Detailed written work is required.

(*b*) A general knowledge of the substance of six books selected from the following groups.

Group 1. One of Hawthorne's novels—*House of Seven Gables* suggested. Group 2. Thackeray, *Vanity Fair,* or *The Virginians.* Group 3. Goldsmith, *Vicar of Wakefield.* Group 4. One of Cooper's novels—*Last of the Mohicans, Prarie, The Pioneers,* or *The Spy* suggested. Group 5. Longfellow's

Hiawatha; Browning's Poems—*Pied Piper* suggested; Cowper —*John Gilpin's Ride* suggested. Group 6. Byron, *Prisoner of Chillon; Mazeppa.*

Written work is required.

Note.—The elements of English Versification are taught in this class.

III Year High School. Three Periods a Week.

Stebbins: Progressive Course in English; Third Year.

Composition and easy writing.

Classics.

(*a*) A thorough knowledge of the subject-matter and structure of: Bryant, *Thanatopsis and Other Poems;* Webster, *First Bunker Hill Oration;* Byron, *Prisoner of Chillon and Mazeppa;* Shakespeare, *Julius Caesar;* Arnold, *Sohrab and Rustum;* Macaulay. *Essay on Johnson;* Newman, *Callista.*

(*b*) A general knowledge of the substance of six books selected from the following groups: Group 1. Wiseman, *Fabiola;* Crawford, *Marzio's Crucifix.* Group 2. Scott, *Waverly, Ivanhoe, Talisman.* Group 3. One of Webster's Speeches. Group 4. Lamb, one of the Essays of Elia. Group 5. Cooper, *Two Admirals, Prairie, Last of .the .Mohicans.* Group 6. Whittier, *Snowbound;* Scott, *Lady of the Lake, Lay of the Last Minstrel.*

Written work is required.

IV Year High School. Three Periods a Week.

Stebbins: Progressive Course in English; Fourth Year.

Weekly practice in Composition and Essay Writing.

Classics:

(*a*) A thorough knowledge of the subject-matter and structure of: Milton, *Lycidas and Comus;* Addison, *De-Coverly Papers;* Milton, *L'Allegro and Il Penseroso;* Shakespeare, *Macbeth;* Carlyle, *Essay on Burns;* Ruskin, *Sesame and Lilies;* Miles Keon, *Dion and the Sybils.*

Detailed work is required.

(*b*) A general knowledge of the substance of six books selected from the following groups: (Written work is required.) Group 1. Poe's Tale and Poems. Group 2. One of Thackeray's Novels. Group 3. One of Scott's Novels. Group 4. One of Dickens' Novels. Group 5. One of the following: a. Bulwer-Lytton, *Last Days of Pompeii;* b. Jane Porter, *Scottish Chiefs.* Group 6. One of the following: a. Tennyson, *Enoch Arden;* b. Scott, *Lady of the Lake.*

GERMAN

I Year High School. Five Periods a Week.

Dreyspring's Cumulative Method of Learning German. The Alphabet, Indefinite and Definite Articles; Pronouns; Prepositions governing the Dative Cases; Adjectives; Nouns; Declension of Nouns, Pronouns; Conjunction of sein, haben, werden; the Conjunction.

Text: Dreyspring's Cumulative Method to page 115.

Reading: *Bunte Geschichten.* Erna M. Stoltze.

II Year High School. Five Periods a Week.

Intensive study of verb forms. Review of weak declension, strong declension; remaining parts of speech.

Text: Dreyspring's Cumulative Method from page 115 to the end.

Reading: *Grimm's Maerchen.* James Kern.

III Year High School. Five Periods a Week.

German Composition and Letter Writing.

Classics: *Selected Poems, Schiller's Lied von der Glocke, Der Taucher.*

IV Year High School. Five Periods a Week.

German Composition.

Classics: *Wilhelm Tell, Jungfrau von Orleans, Hermann und Dorothea.*

LATIN

II Year High School. Seven Periods a Week.

Latin forms, inflections; conjugations; syntax.

Text: *Foundations of Latin.* Bennett.

Reading: *Historia Sacra; Phaedrus.*

III Year High School. Five Periods a Week

Latin Grammar; intensive study of verb forms and syntax.

Text: Bennett's Latin Grammar and New Latin Composition; Part First.

Classics: *Caesar; Viri Romae.*

IV Year High School. Five Periods a Week.

Latin Grammar; Latin Composition.

Text: Bennett's Latin Grammar and New Latin Composition; Part Second.

Cicero's *Orations Against Catiline;* Virgil, *Books I. and II.*

MATHEMATICS

I Year High School. Algebra. Five Periods a Week.

Algebraic Symbols and Expressions; Fundamental Operations; Factoring; Equations of One and Two Unknown quantities; Involution and Evolution; Quadratic Equation.

Text: *Milne's Elements of Algebra.*

II Year High School. Algebra. Five Periods a Week.

Review of previous course with intensive study of factors; H. C. F. and L. C. M.; Fractions; Radicals; Theory of Exponent; Binomial Theorem; Ratio and Proportion; Quadratic Equation.

Text: Milne's High School Algebra.

III Year High School. Geometry. Five Periods a Week.

Plane Geometry. The Line, Polygon, Circle; Proportion; Similar Figures; Areas of Polygons; Area of Circle. I., II., III., IV., and V. Books.

Text: *Wentworth's Plane and Solid Geometry.*

IV Year High School. Geometry. Four Periods a Week.

Solid Geometry. Lines and Planes; Dihedral Angles; Polyhedral Angles; Polyhedrons, Cylinders and Cones; Spheres; Surfaces and Volumes; Problems. VI., VII., and VIII. Books.

Text: *Wentworth's Plane and Solid Geometry.*

SCIENCE

I Year High School a. Physiography. Four Periods a Week.

THE EARTH. A Planet; Movements; Magnetism; Internal Heat; Volcanoes; Earthquakes.

THE LAND. Arrangement of Land Masses; Forms of Land; Relief Forms; Islands.

THE WATER. Properties of Water; Waters on Land; Drainage; Continental Drainage; The Sea; The Oceans; Waves and Tides; Currents of the Sea.

THE ATMOSPHERE. Physical Properties; Climate; Winds; Storms; Moisture of the Air; Hail, Snow, and Glaciers; Electrical and Optical Phenomena.

LIFE. Relations between Plants and Animals; Range of Plants and Animals; Man; Geographical Distribution of Labor.

b. Physiology. Four Periods a Week.

Study of the Cell; Digestion; Foods; The Blood and Its Circulation; Bleeding Wounds and Diseases; Respiration; Ventilation, Heat and Clothing; The Skin and Kidneys; The Nerves and Spinal Cord; The Brain; The Senses; Bones; Muscles.

Text Books: Maury, Physical Geography; Overton, Physiology.

II Year High School. a. Botany. Four Periods a Week.

The Seed and Its Germination; Storage of Food in the Seed; Movements, Development, and Morphology of the Seedling; Roots; Stems; Buds; Leaves; Flowers; Ecology of Flowers; Fruit; Ecology of Fruits.

The Classification of Plants; Types of Cryptograms.

Lectures supplemented by laboratory work.

b. Zoology. Four Periods a Week.

Protozoa; Porifera; Coelenterata; Echinodermata; Vermes; Protozoa Arthropoda; Vertebrata.

Lectures supplemented by laboratory work.

Text-books: Bergen, Elements of Botany; Burnet, School Zoology.

III Year High School. Chemistry. Six Periods a Week.

a. This is a course of experimental lectures with recitations on general and descriptive Chemistry. The following topics are treated: Atomic Theory; Theory of Solutions and Ionization; Acids, Bases, Salts, Neutralization; Reversible Reactions and Chemical Equilibrium; Valance; Molecular and Atomic Weights; Chemical Formulas, Equations, and Calculations; Periodic Law; the Elements that enter into the typical chemical compounds; the organization of the Carbon Compounds and a brief discussion of some of the more common and typical representatives of Organic Chemistry. The instruction is given in such a manner as to bring home to the mind of the student the industrial and economic phases of Chemistry.

b. Laboratory Practice is taken weekly by the individual student and a Laboratory Report of his work is submitted for criticism every week.

c. Chemical Problems bearing on the subjects under discussion are given and solved, one hour per week.

Text: Morgan and Lyman, "Chemistry, An Elementary Text Book;" Morgan and Lyman, "A Laboratory Manual in Chemistry."

IV Year High School. Physics. Six Periods a Week.

Fundamental Units; Force of Motion; Pressure of Liquids; Pressure of Air; Molecular Motions; Molecular Forces; Thermometry; Work and Mechanical Energy; Work and Heat Energy; Change of State; Magnetism; Electricity; Static and Current Dynamic Electricity; Sound; Light.

Lecture course is accompanied by a laboratory course embracing about thirty-five experiments, illustrating and demonstrating the most important laws of physics.

Text-book: Miliken and Gale's Laboratory Manual.

HISTORY

I Year High School. United States History. Two Periods a Week..

A topical review of the work of previous grades. The Revolutionary War; The Adoption of a New Form of Government; Establishment of the New Government; Growth in

Territory and Population; Progress in Education and Literature; Financial Questions; Troubles with Foreign Countries; Slavery; Civil War.

These topics should be made the subjects of composition after due preparation.

Civil Government. Two Periods a Week.

Meaning of Term: Different Forms of Government; Colonial Governments; Constitution of the United States; United States Government, Legislative, Executive, and Judicial Branches; Noteworthy Days and Events of Catholic History in the United States.

Text: Forman.

Irish History. Two Periods a Week.

Geography of Ireland; Pre-Christian Period; Laws, Customs and Antiquities of the Milerians. St. Patrick; The Danes; Norman Invasion; The Campaign under Bruce; The Geraldines; The Beginning of Religious Persecutions. The National Confederacy; Cromwell and the Cromwellians; The Penal Code; The Struggle for Legislative Independence; Catholic Emancipation; Home Rule and the Land Question; Education.

II Year High School. Two Periods a Week.

First Seemster—Ancient History; Egypt; Assyria and Babylon; Media and Persia; Phoenicia and Carthage; Greece; Macedonia; States Formed from the Dismemberment of Alexander's Empire.

Second Semester—Roman History: The Monarchy (B. C. 753-509); The Republic (B. C. 509-29); The Empire, Pagan and Christian (B. C. 29, A. D. 476).

Text: Meyers.

III Year High School. Two Periods a Week.

First Semester—Great Invasions and Fall of the Empire of the West; History of Gaul, Great Britain, Spain, Italy; The Church and the Barbarians; Ascendency of the Carlovingians; Mohammedanism; The Church and Christian Civilization; The Empire and Feudalism; Germany and Italy; Struggle of the Papacy and the Empire.

Second Semester—Crusade in the East; Crusade in Europe, France, England and Ireland; The Great Schism of the West; Hundred Years' War; Germany, Switzerland, and Italy; The Greek Empire and the Ottoman Turks.

Text: Meyers.

IV Year High School. Two Periods a Week.

First Semester—Decline of Feudalism; The Protestant Reformation; Religious Wars in France; Thirty Years' War; Louis XIV., The Two Revolutions.

Second Semester—The First French Republic; The Empire Catholic Emancipation and Reform in Great Britain and Ireland; The Eastern Question in Europe; The Revolution of 1848; Russia and the Eastern Question; Recent Changes in Italy; France, Spain and the Minor States of Europe; The British Empire.

Text: Meyers.

BUSINESS DEPARTMENT

SECOND YEAR

First Term

	Periods
Religion	3
English	2
Arithmetic	5
Commercial Geography	1
Business Law	2
Bookkeeping	5
Phonography	5
Typewriting	5

Second Term

	Periods
Religion	3
English	2
Arithmetic	5
Commercial Geography	1
Business Law	2
Bookkeeping	5
Phonography	5
Typewriting	5

FIRST YEAR

First Term

	Periods
Religion	3
English	2
Arithmetic	5
Commercial Law	2
Bookkeeping	5
Phonography	5
Typewriting	5

Second Term

	Periods
Religion	3
English	2
Arithmetic	5
Commercial Law	2
Bookkeeping	5
Phonography	5
Typewriting	5

Daily Practice in Penmanship.

SUBJECTS OF INSTRUCTION

CHRISTIAN DOCTRINE

I Business

First Business—As outlined for Third Year High School, p. 106.

Second Business—As outlined for Fourth Year High School, p. 106.

ENGLISH

1. Business Orthography. (*Gregg's Business Speller.*) Oral, written, and typewritten. Spelling of words selected from business and every-day life. Orthography of words that occur in every day's lessons. Study of synonyms, homonyms, and autonyms. Dictation. Study of the diacritical marks, abbreviations, initials, and the proper use of the dicionary.

II Business

Business Orthography. Program as outlined for I. Business.

Business English and Essentials of Letter Writing.

I Business

Grammar: Choice of words; false syntax; punctuation; capitalizing; paragraphing.

3. Composition: Plan and outline. Subjects, descriptive, reproductive, narrative. Exercises in business and social letter writing.

Text: Gregg's Business English.

II Business

1. Business Correspondence. Letter Writing. Principles of rhetoric reviewed; phraseology; punctuation; capitalization; paragraphing; style and its essential qualities; figures.

2. Composition: Plan and outline. Subjects; descriptive; reproductive; narrative; argumentative. Essays, summaries, criticism, detailing. Exercises in formulating letters, telegrams, cablegrams. Study of the Postal Service and postage rates.

PRACTICAL BUSINESS ARITHMETIC

MOORE AND MINER

I Business

Review of Fundamentals; Average; Checking Results; Decimal Fractions; Factors; Divisors and Multipliers; Common Fractions; Aliquot Parts; Bills and Accounts; Denominative quantities; Practical Measurements; Percentage as applied in Bookkeeping; Daily Practice in Rapid Calculation.

II Business

Percentage; Commercial Discounts; Gain and Loss; Marking Goods; Commission and Brokerage; Property Insurance; State and Local Taxes; Customs; Duties; Interest; Bank Discount; Partial Payment; Banker's Daily Balances; Stocks and Bonds; Life Insurance; Partitive Proportion and Partnership; Storage; Daily Practice in Rapid Calculation; Use of Adding Machine; Method of Proving Results by Check Numbers.

COMMERCIAL GEOGRAPHY

GANNET-GARRISON-HOUSTON

I Business

COMMERCIAL CONDITIONS: Climate and Topography; Influence of the Climate and Topography on Life; Social Conditions; Manufacturing Facilities; Transportation Facilities; Financial Conditions; Soil and Its Cultivation; Vegetable Products; Animal Products; Mineral Products.

UNITED STATES: Vegetable Products; Animal Products; Mineral Products.

UNITED STATES: Manufacturers, Transportation, Commerce and Population; Vegetable Products; Animal Products; Mineral Products. Manufacturers, Transportation, Commerce and Population of Alaska; Canada; Newfoundland; Danish America; Mexico; Central America; West Indies; Europe; Asia; Africa; Australia; New Zealand; Oceanica and South America.

ELEMENTS OF BUSINESS LAW

GREGG

I Business

PRELIMINARY TOPICS: Business Law; Property; Courts; Procedure; Formation of Contracts; Agreement; Competent Parties; Consideration; Form Writing; Seal; Legality of Object; Reality of Consent.

OPERATIVE AND DISCHARGE OF CONTRACTS: Liabilities and Rights of Third Parties; Assignment of Contracts; Discharge of Contracts; Discharge in Bankruptcy; Particular Contracts Concerning Goods.

BAILMENT OF GOODS: Bailments Solely for Benefit of One Party; Mutual Benefit Bailments; Special Cases of Bailment for Keeping of Transportation; Cases Not Strictly of Bailment.

INSURANCE CONTRACTS: Life; Property; Marine; Policies; Warranties.

PARTICULAR CONTRACTS CONCERNING CREDITS: Credits and Loans; Interest; Usury; Banks; The Contract of Guaranty; Security.

NEGOTIABLE INSTRUMENTS: Nature and Characteristics; Form; Negotiation; Maker's and Acceptor's Contract; Drawer's and Endorser's Contract.

II Business

THE CONDUCT OF BUSINESS THROUGH REPRESENTATIVES: Agents; Principal and Agent; Appointment of Agents; Obligations of Principal and Agent to Each Other; Liabilities of Principal to Third Parties; Liability of Agent to Third Parties; Master and Servant; Inquiry to Servants.

BUSINESS ASSOCIATIONS: Partnerships; Joint Stock Companies; Corporations.

PROPERTY IN LAND AND MOVABLES: Real Property; Estates of Real Property; Lands; Its Constituents; Growths and Fixtures; Relative Right of Adjoining Owners; Transfer of Interests in Lands; Mortgages and Liens; Landlord and Tenant.

PERSONAL PROPERTY: Classification; Kinds and Estates; Acquisition and Transfers.

BOOKKEEPING

I Business

DOUBLE ENTRY: Journalizing; Posting; Trial Balance; Balance Sheet; Loss and Gain Account; Daybook Journal; Forwarding; Writing and Filing of Business Forms; Exercises in Writing Checks; Notes and Drafts; Practical Business Method of Computing Interest and Discount; The Check Book; Cash Book, Bill Book, and Sales Book; Directions for Taking Inventories and Finding Errors in Trial Balances; Six Column Journal.

SINGLE ENTRY: Journal and Cash Book; Monthly Statements; Changing from Single to Double Entry.

SUPPLEMENTS (*Southwestern Publishing Co.*) Part I. (*Ellis Publishing Co.*) Interstate Exercises.

II Business

(*Modern Business Bookkeeping.*)

Special Column Journal for Retail Grocery Business; Retail Coal Business; Wholesale and Retail Lumber Business; Shipments and Consignments; Jobbing; Manner of Detecting and Correcting Errors; Verifying Inventories of Text Books; Forwarding Accounts; Check Numbers; Opening of New Books and Transferring Accounts from Old to New; Installment Houses and Agencies; Commercial Agencies; Cost Ac-

counting; Averaging; Manufacturing; Joint Stock Companies; Changing from a Proprietorship to a Joint Stock Company; Banking; Clearing House; Department Stores; Loose Leaf Ledger; Typewriter Bookkeeping (*Brown*).

SUPPLEMENTARY: *Marshall's Drills*. Advanced Exercises from *Ellis*, Higher Accountng (*Goodyear-Marshall* and *Moore & Miner*). Complete Filing Case for Card System. Manipulation Register (Late Model 4-Drawer).

PHONOGRAPHY

GREGG

I Business

Simple forms of characters; simple word-signs and phrase-writing. Blended consonants; compound words; the abbreviating principle. Dictation from First and Second Readers.

II Business

Review of first nine (9) lessons. Omission of vowels; joined prefixes, disjointed prefixes; joined affixes; disjointed affixes. Analogical Abbreviation; advanced phrase-writing; initials. Taking down of dictated business letters and speeches. Daily practice for speed and rapid transcription.

TYPEWRITING

UNDERWOOD, MONARCH, L. C. SMITH, REMINGTON, SMITH PREMIER, ROYAL.

I Business

Scientific Touch Typewriting Manual, Bliss Co.

Touch system, keyboard, sentences, tabulating.

II Business

Arithmetical Exercises. Addressing envelopes, letter writing; transcribing shorthand notes taken in dictation. Duplicating by Letter Press; manifolding by carbon; stenciling for Underwood Duplication. Designing and display forms. Arithmetical exercises. Proper care of machines, and adjusting of ordinary difficulties.

OFFICE TRAINING

GREGG

Office Training is designed to give the students the knowledge and training that employers designate as "experience."

It contains twelve sections, each of which deals with a distinct and vital phase of office work.

PENMANSHIP

I Business

The Ideal Method of Muscular Movement Business Writing.

II Business

The Ideal Method of Muscular Movement Business Writing.

Use of Automatic Shading Pen.

ELEMENTARY DEPARTMENT

Faculty

Rev. Bernard P. O'Reilly, S. M.
President

Bro. George L. Ley, S. M.
Principal

Bro. John Voelker, S. M.
Eighth A

Bro. George Schneider, S. M.
Eighth Grade B

Bro. Joseph Hahner, S. M.
Seventh Grade

Bro. Edwin Weigand, S. M.
Sixth Grade

Bro. John Gareis, S. M.
Bro. Leonard Mattis, S. M.
Bro. George Weis, S. M.
Religion

Emil Hocke
Physical Instructor

ELEMENTARY DEPARTMENT

SUBJECTS OF INSTRUCTION

CHRISTIAN DOCTRINE

Fifth Grade

Catechism of Christian Doctrine. Plenary Council of Baltimore, No. 2.

Sixth Grade

Catechism of Christian Doctrine. Plenary Council of Baltimore, No. 2 reviewed). Liturgy; Sacred Vessels; Vespers; Benediction; Vestments; Blessed Ashes; Palms; Use of Holy Water; Blessed Candles; Processions.

Seventh Grade

Catechism of Christian Doctrine. (Deharbe's Small Catechism). Ten Commandments as in Bible; Cardinal Virtues; Evangelical Counsels; Nine Ways of Being Accessory to Another's Sins; Sins That Cry to Heaven for Vengeance; Liturgy; Gospels of Sundays and Festivals; Principal Feasts.

Eighth Grade

Deharbe's Small Catechism reviewed. Liturgy; Manner of Serving at Mass; Articles Needed for and Ceremonies of All the Sacraments, especially Baptism, Extreme Unction, and Viaticum.

SACRED HISTORY

Fifth Grade

Old Testament. The principal events in the four epochs from Adam to Noah; Noah to Abraham; Abraham to Solomon; Solomon to Christ. Creation; Angels; Adam and Eve; Cain and Abel; Seth; Deluge; Babel; Abraham; Isaac; Jacob; Esau; Joseph; Moses; Josue; The Judges; Solomon; Roboam.

New Testament. The principal events in the four periods and further subdivision of the epochs by the aid of the to A. D. 33, The Public Life; Week of the Passion; The Glorious Life. See for reference the Teachers' Manual.

Sixth Grade

Old Testament. Review of the principal events of the Old Testament as in the preceding grade, but with more detail and further subdivision of the epochs by the aid of the mnemonic word "Ajenamsec."

New Testament. Work of the preceding grade studied with more detail, introducing maps of Palestine and of the holy places.

Seventh Grade

Old Testament. Review of the work of the preceding grade, with intensive study of the period 26 B. C. to the birth of Christ; The Kingdom of Israel; the Prophets; Kingdom of Juda; Juda in Captivity; The Return from Captivity; Under the High Priests; Asmonean Dynasty; Herodean Dynasty.

New Testament. The First, Second and Third Journeys of Our Lord about the Sea or Lake of Galilee. Map-drawing in connection with it.

Eighth Grade

Review of the work of the preceding grades, with a special study of Jerusalem; Jerusalem Before Christ; Jerusalem at the Time of Christ; The Church of God Prefigured in Sacred History; Foundation of the Catholic Church.

ENGLISH

Fifth Grade

(*a*) *Reading.*
(*b*) *Word Study.*
(*c*) *Language and Composition.*
(*d*) *Literary Selections for Explanation and Study.*

(*a*) *Reading,* Benziger's III. Reader.

Supplementary reading is to be found in the lists of literary selections for the class.

(*b*) *Word Study.*

1. Spelling.
2. Etymology. Selected lists of Prefixes, Suffixes, and Roots.
3. Phonics. Diacritical marks and use of dictionary.
4. Syllabication. Simple rules.

Text: Champion Speller.

(*c*) *Language.*

1. Synthesis of simple sentences. Topics to be chosen preferably from object lessons suggested by texts in reading Sacred History, United States History, Geography, and Nature Study.

Analysis of a simple sentence with reference to subject, predicate and copula, and possibly adjective modifiers.

2. Grammar. To distinguish nouns, pronouns, verbs without reference to mood or tense, and adjectives in a sentence. Rules and exercise with reference to singular and plural, masculine and feminine.
3. Punctuation.

Texts: Hoenshel's Grammar.

Sixth Grade

(*a*) *Reading.* Benziger's IV. Reader.

Supplementary reading to be found in the literary selections for this grade.

(*b*) *Word Study.*

1. Spelling words selected from the various text-books used in the class. List of words frequently misspelled. Review lists of common words. Exercises in synonyms. Train pupils to arrive at the meaning of words from the context.

Text: Champion Speller.

2. Phonics. Require lists of words to be marked diacritically. List of words whose pronunciation is to be sought. Geographical and historical names.

3. Etymology. Selected lists of Prefixes, Suffixes, and Roots.

Use of the dictionary in forming groups or family of words from the above.

(*c*) *Language and Composition.*

1. Synthesis of simple and complex sentences, introducing relative clauses, adjuncts, modifiers, phrases.

Analysis of simple and complex sentences.

2. Grammar. Nouns; kinds and properties. Personal pronouns; their person, number, gender, and case. Verbs; transitive and intransitive, mood (but not the subjunctive), tense, person and number. Adjectives: of time, place, and manner, comparison. Prepositions, Conjunctions, and Interjections.

3. Punctuation. Draw attention to the use of the period, the comma, colon, and semicolon, exclamation point, and interrogation point in the course of reading. Study a certain number of abbreviations.

4. Daily practice in the formation of simple and complex sentences upon topics suggested by the studies in reading, history, geography, and nature. Introduce letter-writing. Paraphrasing of literary selections studied in class (second term).

Texts: Hoenshel's Grammar.

Seventh Grade

(*a*) *Reading.*
(*b*) *Word Study.*
(*c*) *Language and Composition.*
(*d*) *Literary Selections for Explanation and Study.*

(*a*) *Reading.* Benziger's IV. Reader.

The Polite Pupil. Insist upon Chapters V. and VI.

(*b*) *Word Study.*

1. Spelling. Selected words from text-books used in class. Exercises in synonyms, homonyms, and antonyms.

2. Phonics. Diacritical marks. Lists of geographical and historical names.

3. Etymology. Selected lists of Prefixes, Suffixes, and Roots.

Use of dictionary in connection with the forming of groups or family of words with the elements above.

4. Punctuation and Capitals.

(*c*) *Language and Composition.*

Synthesis and analysis of simple, complex, and compound sentences, with modifiers, adjuncts, and phrases.

Grammar. Formal grammar on the basis of Hoenshel's grammar, with the most important rules of Syntax.

Composition. Oral and written reproduction of stories from Sacred History; topics suggested by Geography, United States History, Literary Selections used in class. Letter writing.

Paraphrasing of certain literary selections.

Texts: Hoenshel's Grammar.

Eighth Grade

(*a*) *Reading.*

(*b*) *Word Study.*

(*c*) *Language and Composition.*

Classics: Seven American.

(*d*) *Literary Selections for Explanation and Study.*

1. Spelling. Selected words from the text-books used in the class. Exercises in synonyms, and antonyms.
2. Phonics. Diacritical marks.
3. Etymology. Selected lists of Prefixes, Suffixes, and Roots.
4. Punctuation and Capitalization.

(*c*) *Language and Composition.*

Daily practice in synthesis and analysis of simple, complex, and compound sentences, with modifiers, adjuncts, phrases.

Grammar. Formal grammar on the basis of Hoenshel's Advanced Grammar. Intensive study of the verb.

Composition. Oral and written reproduction stories from Sacred History; topics suggested by Geography, United States History and Literary Selections committed to memory.

Texts: Hoenshel's Grammar; Seven American Classics.

UNITED STATES HISTORY

Fifth Grade

A few leading facts of the general history. Selected lives of great men in early American History. Lives, adventures, and events in United States History.

Topics for history should be chosen in connection with studies in geography. No topic should be considered completed until the pupils have written a composition upon the same.

Sixth Grade

Discoveries and explorations. Settlements and Inter-Colonial Wars.

I. *The New World: Discoveries, Explorations, and Claims.*

Extent of knowledge of the world before the discovery of America. Motives which prompted European Explorations. English, French, and Dutch Discoveries and Explorations.

II. *Colonial Development.*

Southern Colonies, New England Colonies, Middle Colonies.

III. *Inter-Colonial Wars.*

Causes: King William's War, Queen Anne's War, King George's War, French and Indian War. Conditions of the Colonies after the wars.

Map Drawing.

Seventh Grade

The Revolution, Establishment of the Federal Government, Growth of the Nation.

I. *The Revolution.*

Causes of the Revolution. Beginning of the War. (1775-1776.) New England and Canada. Campaigns of 1776-1778, principally in the Middle States. Campaigns of 1778-1781, principally in the Southern States. Treaty of Peace. 1783.

II. *Organization of the Government of the United States.*

III. *The Development of the Union.* 1789-1845.

Maps to be constantly used in connection with lessons in history.

Eighth Grade

Development of the Nation, continued (1845-1909). The Tariff Question and Growth of Sectional Feeling. Inventions and Improvements and their effects. The Civil War.

Text: Benziger's History, revised.

GEOGRAPHY

Fifth Grade

First Term.

Dayton. General talks about the people, animals, and plants of our town and other countries. The earth on which we live. Representations of the earth's surface. The globe representing the earth. Climate of different parts of the earth. North America: Outlines, boundaries, land and water divisions, climate, productions, inhabitants, political divisions.

Second Term.

The United States. Boundaries, general outline, size, land and water, divisions, climate, soil productions, vegetation, animals, minerals, inhabitants, their occupation, important cities.

Sixth Grade

First Term.

Short review of general questions of the preceding grade. Latitude and Longitude.

Study of South America. Position; boundaries; physical features; climate; inhabitants; races of men; their modes of life and occupation; commerce; political divisions, important cities.

Second Term.

Europe and Asia.

Countries, positions, cities, rivers, mountain ranges.

Seventh Grade

Mathematical Geography. Shape and Size of the Earth, Motions, Latitude and Longitude, Change of Seasons, the Zones, Globes and Maps.

Physical Geography. Surface, Land and Water Formations, Winds, Climate, Plants, and Animals.

Political Geography. Man, Religion, Industrial Pursuits, Governments, etc.

Above topics studied in connection with extensive studies of North America, United States, Canada, Mexico, Central America.

Text-book: Maury's Manual of Geography, Revised. (To page 76.)

Eighth Grade

Extensive study of South America, Europe, Asia, Africa, Australia, and Oceanica, on same plan as for Seventh Grade.

Maury's Manual, Revised. (Page 76 to the end.)

ARITHMETIC

Fifth Grade

Review the multiplication tables. Continue drills in the four fundamental operations. Work for accuracy rather than rapidity. United States Money. Concrete problems. Written analysis of problems involving the fundamental operation. Factors of numbers less than 100. G. C. D. and L. C. M. by the method of factoring. Denominate numbers. The most important units of length, surface, volume, weight, and time. Tables of surface and volume are to be deducted and practically from tables of length. Insist upon the written analysis of the problem. Problems in Mental Arithmetic should precede every lesson in Arithmetic.

Sixth Grade

Short review of some of the work of the preceding grade.

Simple fractions. Addition and subtraction of fractions. Multiplication and division of fractions. Concrete problems involving the above. Insist upon written analysis of solution. Decimal fractions. Bills and accounts. Area of surfaces, rectangles, paralellogram, and triangle. Problems involving such surfaces. Area of land estimated in acres. Volumes of the cube and prism.

Seventh Grade

Review fractions and mensuration of the preceding grade.

Conversion of fractions and mensuration of the preceding grade.

Conversion of fractions to decimals and inversely. Percentage. Commercial Discount. Profit and Loss. Commission. Simple Interest. Circumference and area of the circle. Surface and volume of the cylinder.

Eighth Grade

Review fractions and mensuration of the preceding grades.

Latitude and Longitude. Review some of the more important problems of percentage. Ratio and proportion. Analytical method. Power and roots.

Texts: Hamilton's Elementary and Complete Arithmetic.

PENMANSHIP AND DRAWING

Penmanship.

Palmer Method used in all grades.

Drawing.

Augsburg's Standard Course.

Fifth Grade, No. 4; Sixth Grade, No. 5; Seventh Grade, No. 6; Eighth Grade, No. 7.

PREFECTS

Bro. Frederick Paff, S. M.
First Division, Resident Students

Bro. Thomas Seebald, S. M.
Second Division, Resident Students

Bro. Joseph Wiesmann, S. M.
Third Division, Resident Students

Bro. Leonard Mattis, S. M.
Nazareth Hall, Resident Students

Bro. Henry Hemmert, S. M.
Non-Resident Students

Bro. John Gareis, S. M.
St. Joseph Hall

Bro. Geo. Weis, S. M.
Assistant Prefect

MUSIC DEPARTMENT

Bro. Louis Vogt, S. M.
Violin, Orchestra

Bro. Thomas Poitras, S. M.
Organ, Piano, Singing

Louis Kelly
Piano

Fred Moehring
Cornet

COLLEGE PHYSICIANS

Wm. Plattfaut, M. D., office hours, 8-10 a. m., 7-8 p. m.
D. G. Reilly, M. D., office hours, 8-9 a. m., 1-3 p. m., 7-8 p. m.
G. A. Hochwalt, M. D., office hours, 8-9 a. m., 2-3 p. m., 7-8 p.m.
A. J. Moorman, M. D., office hours, 8-10 a. m., 1-3 p. m., 7-8 p. m.
Horace Bonner, M. D., office hours, 9-12 a. m., 1:30-4:30 p. m.
Specialist in Eye, Ear, Nose and Throat Diseases

Dr. F. S. Keller, Dentist.
John Ranly, M. D., Eye Specialist.

ANNUAL SCHOLARSHIPS

The Cappel Scholarship Harry F. Cappel, '98 and Carl L. Cappel, '03 share the honor of having contributed the first annual Scholarship to St. Mary College. The Cappel Scholarship was established in 1907 and is awarded to the highest honor graduate of the High School Department desiring to enter the College of Science or the College of Engineering. The winner of this scholarship may use it during the four years of his college work.

The St. Mary College Scholarships The Board of Trustees of St. Mary College is the donor of several Day Student Scholarships, one being awarded to every parish of the city in favor of a deserving student who desires to study for the priesthood. These scholarships, now thirteen in number, were established in 1908.

Barry S. Murphy Scholarship Barry S. Murphy, '79 is the donor of a Day-Student Scholarship to be applied to a student for the holy priesthood.

NEEDS OF THE COLLEGE

The Board of Trustees and Officers of St. Mary College are the frequent recipients of unsolicited words of praise for the extraordinary progress made at the college along practically all lines during the past years. We are growing, it is true, but not in proportion with the needs of the present day. The new Normal School, which was completed in June, 1915, at Mount St. John, will enable us to accommodate a large increase of boarding students; but this increase, added to the present attendance, will accentuate some of the needs that seem imperative even at the present. We desire our former students and friends to know what these needs are, feeling confident that they will follow the example given by so many non-Catholics who have endowed their institutions with buildings, professorships and scholarships.

Some of the immediate needs are:

A Science Hall for the College of Engineering.
A Library Building and bequests for the Library.
A Gymnasium and Natatorium.
An Auditorium.

When bequests are designated for the use of any department or any other special purposes, the Board of Trustees will respect the wishes of the donors and apply them to such purposes.

FORM OF BEQUEST

I give and bequeath to the Board of Trustees of St. Mary College, of Dayton, Ohio, the sum of .....Dollars, as a fund, to be called "..... Fund," to leave and hold the same absolutely for use of St. Mary College, Dayton, Ohio, in the establishment of .....

Designate purpose: "Science Hall," "Library Building or Bequest for Library," "Gymnasium and Natatorium," "Auditorium," "Professorships" or "Scholarships."

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St. Mary College

DAYTON, OHIO

College of Engineering

(Inaugurated, September, 1910)

College of Arts, Letters and Science, High School, Business and Elementary Departments

A new Dormitory Building was opened September 7, 1911. All private rooms are equipped with every convenience—electric light, steam heat, hot and cold water and pure spring water. Bath rooms are installed on every floor.

St. Mary has all that a college of today calls for, viz: Halls, modern in every detail; complete equipment, (laboratories, libraries, museum, etc.,) a picturesque park, extensive grounds and large campuses to accommodate the entire student body.

For bulletin and illustrated literature apply to

Rev. Bernard P. O'Reilly, S. M., President

37 H
6/17

St. Mary College BULLETIN

ST. MARY COLLEGE
DAYTON, OHIO

UNIVERSITY OF ILLINOIS
APR 20 1917
Administrative Library

1915-1916-1917

UNIVERSITY OF ILLINOIS LIBRARY

SIXTY-SIXTH YEAR

SERIES XXVIII NUMBER 1

IMPORTANT

St. Mary College, formerly known as "St. Mary's Institute" and "St. Mary's College," is now officially known as "St. Mary College." The change of name was made on the occasion of the re-incorporation of the institution which now comprises the Collegiate, Pre-Medical, High School, Business and Elementary Departments, located in South Park, Dayton, Ohio, and the Mount St. John Normal Department for the training of Teachers of the Society of Mary, located at Mount St. John, Green County, Ohio.

THE COLUMBIAN PTG & PUB. CO.
COLUMBUS, OHIO

COLLEGE CALENDAR

1916-1917

Sept. 6—Registration: High School, Business and Elementary.

Sept. 7—High School, Business and Elementary Departments open.

Sept. 11—College of Arts and Letters opens 8 a. m.

Sept. 18—College of Engineering opens 8 a. m.

Sept. 25—Annual Retreat begins.

Nov. 1—All Saints. No classes.

Nov. 30—Thanksgiving Day. No Classes.

Dec. 6, 7, 8—Triduum in honor of the Immac. Conception.

Dec. 8—Immaculate Conception. No Classes.

Dec. 11-18—Alumni Diamond Medal Contest.

Dec. 3 and 17—The Elocution Contests.

Dec. 21—Christmas Holidays begin.

Jan. 5—Classes resume, 8:45 a. m.

Jan. 20—Holy Name Service.

Jan. 29—First Term Examinations begin.

Feb. 1—Second Term Begins.

Feb. 22—Washington's Birthday. No Classes.

Mar. 5-12—Alumni Diamond Medal Contest.

Mar. 17—St. Patrick's Day. Half-holiday.

Mar. 25—Dr. D. G. Reilly Oratory Prize Contest.

Apr. 4—Easter Holidays begin.

Apr. 13—Classes resume, 8:45 a. m.

May 14, 15, 16—Triduum in honor of the Bl. Sacrament.

May 17—Ascension. No Classes.

May 30—Decoration Day. No Classes.

June 4—Examinations, Collegiate Classes.

June 7—Examinations, Fourth Year High and Second Business, begin.

June 11—Examinations, remaining classes.

June 14—Commencement.

1917-1918

Registration Day, Wednesday, September 5.

High School, Business and Elementary Departments open Thursday, September 6, 9:45 a. m.

College of Arts and Letters opens Tuesday, September 11, 8 a. m.

College of Engineering opens Tuesday, September 18, 8 a. m.

ST. MARY COLLEGE

DAYTON, OHIO

A Boarding and Day College for
Young Men and Boys

ESTABLISHED IN 1850 BY
THE SOCIETY OF MARY

I. COLLEGIATE:
ARTS, LETTERS
SCIENCE, PRE-MEDICAL
ENGINEERING

II. HIGH SCHOOL
III. BUSINESS
IV. ELEMENTARY

EXECUTIVE COMMITTEE
of the
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GEORGE L. LEY, S. M.
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HENRY HEMMERT, S. M.
Assistant Steward

REV. ALOYS SCHRATZ, S. M.

ST. MARY COLLEGE

DAYTON, OHIO

GENERAL STATEMENT

St. Mary College is a boarding and day-college for young men and boys, under the direction of the Society of Mary. It was incorporated in 1878, and empowered to confer degrees by an act of the General Assembly of the State of Ohio.

Visitors arriving at the Union Station can take an Oakwood car going south at the corner of Main and Fifth streets, and proceed directly to the College.

The extensive grounds of over 50 acres are located in South Park, a remarkably picturesque spot within the city of Dayton, overlooking the Miami Valley. St. Mary has all that a college of today calls for, viz., dormitory building with private rooms; halls, modern in every detail; complete equipment for all departments (laboratories, libraries, museums, etc.); a picturesque park, a natatorium, a gymnasium and auditorium, club rooms, and campuses of over ten acres to accommodate the entire student body.

A new Dormitory Building was opened June 1, 1911. All private rooms are equipped with every convenience—electric light, steam heat, hot and cold water, and pure spring water. Bath rooms are installed on every floor. No expense is spared to make the rooms as comfortable and home-like as possible.

Another building, Nazareth Hall, until recently occupied by the Normal Department, has been remodeled to accommodate the resident and non-resident students of the Elementary Grades.

INSTRUCTION

Departments There are five distinct Departments of Studies at St. Mary: The Collegiate Department, the Pre-Medical Department, the Preparatory or High School Department, the Business Department and the Elementary Department. The studies in all Departments, excepting the Collegiate and Pre-Medical, are prescribed and not elective.

Collegiate Department The Collegiate Department comprises the College of Arts, Letters and Science, and the College of Engineering.

The College of Arts, Letters and Science purposes to offer to the student the time and opportunity to cultivate further and to bring to maturity the qualities of mind and

heart and will that have been developed to great extent in the Preparatory and High School Departments. To attain this aim a greater latitude is permitted in the selection of studies. The studies of the Collegiate Department are divided into four groups, leading to the degrees of Bachelor of Arts, Bachelor of Letters, Bachelor of Science and Bachelor of Engineering. The selection of studies is made with the assistance of an Advisory Board, and with the approval of the Prefect of Studies. Christian Doctrine, Philosophy, and English are considered fundamental studies for all degrees. Latin and Greek are characteristic studies for students wishing to obtain the degree of Bachelor of Arts. Latin, History, and Modern Languages are characteristic studies for candidates aspiring to the degree of Bachelor of Letters. The Sciences, Mathematics, and Physics, or Chemistry, or Biology, are characteristic studies for the degree of Bachelor of Science. In addition to this there is granted more or less selection in each group, especially in the Senior Year. For a detailed account of studies offered in the Collegiate Department, see the Program of Studies.

The College of Engineering, organized September, 1910, is designed to satisfy an oft-repeated desire to fill a long-felt need. This College is a natural outgrowth of the science courses which have always received considerable attention at St. Mary.

No effort is spared to acquaint the student thoroughly with the fundamental principles and to give him a good insight into the theoretical analysis of engineering problems. While emphasis is laid on fundamental theory, continual attention is paid to the solution of practical problems for the purpose of imbedding principles and illustrating the lines of their general industrial application. At the same time students are trained to habits of initiative and industry, and will thus be well prepared to adapt themselves readily to actual conditions and requirements, and to grapple with new problems that from time to time confront the professional engineer.

Lecture and text-book courses are accompanied throughout by quantitative work in well-equipped laboratories.

Frequent visits are made to accessible enginering establishments to make the student thoroughly conversant with the trend of current engineering practice. For such purposes Dayton offers exceptional facilities owing to the great number and variety of engineering plants located in the city and vicinity.

Lectures by engineers in active service will help to keep the student in touch with profesional work.

For detailed information see the Program of Studies.

Pre-Medical Department The Pre-Medical Department was organized to accommodate students desiring to prepare for Medical Colleges. The curriculum of two years comprises studies required for admission to the best Medical Colleges of the Middle-West.

Preparatory Department The course of study in the Preparatory or High School Department extends through four years, and is equivalent to the usual High School course given in American High Schools. It provides a systematic instruction in Christian Doctrine, English Composition, Rhetoric, Literature, English Classics, Latin, a modern language (German, French, or Spanish), Algebra, Geometry, Physical Geography, Physiology, Botany, Zoology, Chemistry, Physics, Civics, Ancient, Mediaeval and Modern History, and Elocution. (For a detailed account of the courses, see the Program of Studies.) A certificate of graduation from the Preparatory Department, or its equivalent, is required for entrance into the Freshman Class of the College.

Commercial Department The Commercial or Business Department is intended for those who cannot command the time, or have not the inclination for a thorough High School and Collegiate training. While the curriculum does not develop the mental faculties so fully and so harmoniously as the more thorough and systematic courses in the classics and sciences offered by the Collegiate Department, nevertheless it supplies all requirements of a good business education. The curriculum comprises the study of Religion, a thorough course in English, including Grammar, Rhetoric, Literature, English and American Classics, Business Writing, Composition, General History, Business Arithmetic, Bookkeeping, Commercial Law, Commercial Geography, Phonography, Typewriting, and Elocution. The course lasts two years, and is open to students who possess the necessary preliminary instruction. For a detailed account of studies refer to the Program of Studies.

Elementary Department The Elementary Department accommodates students of the fifth, sixth, seventh, and eighth grades of grammar school. It provides a sound training in Christian Doctrine, Reading, Penmanship. Grammar, Arithmetic, United States History, Geography, Elocution, Drawing and Etiquette. The completion of the elementary course, or of the eight years' course in a parochial or public school is required for entrance into the Preparatory or High School Department. For detailed account of studies, see the Program of Studies.

Session The academic year consists of only one session, beginning in the first week of September, on the date specified on index page, and closing in the latter part of June.

It is very desirable that all students enter on the first day of the session; however, applicants are received at any time during the academic year and charged for the remainder of the session.

Candidates for admission are required to present testimonials of good moral conduct.

Rank

In the Elementary, Preparatory and Business Departments the rank of each student is determined by daily marks, weekly competitions, and half-yearly examinations. A record of the standing of each student in scholarship and conduct is kept in the registers of the College, and a copy is sent to the parents and guardians at the end of each month.

In the Collegiate Department there are written tests once a week, or at least once every two weeks, according to the nature of the subject, supplemented by oral recitations, at the discretion of the professors.

Bi-monthly records of these tests and of written work (tasks) are kept by the professors.

The monthly standing of the students is publicly announced at the beginning of the month.

After each semester there are written examinations on the program of the last half-year, supplemented by oral examinations, if demanded by the nature of the subject.

An average of 70 per cent. for the written work, written tests, and the semester examinations is required to receive credit for any study.

Medals

Medals and honors for scholarship are awarded at the Annual Commencement and published in the July issue of "**The Exponent**," the College Magazine.

Gold medals for excellence in class studies are awarded in the High School and Business classes.

Excellence in class studies is determined by the monthly marks, weekly competitions, and half-yearly examinations.

A minimum average of eightly-five per cent. is required to win a gold medal.

Honors for single studies are determined by competition only.

A mention for First Honors is given to students that have attained an average of ninety per cent. A mention for Second Honors is given to those students that have attained an average of eighty-five per cent.

Prizes are awarded to the students preparing for the B. A. and B. L. degrees as follows:

Freshman—Excellence in English Studies.

Sophomore—Excellence in Latin Studies.
Senior—Excellence in Philosophical Studies.

Prizes are awarded to students preparing for the Engineering degree as follows:

Freshman—Excellence in Mathematics and Chemistry.
Sophomore—Excellence in Mathematics and Physics.
Junior Electrical—General Excellence.
Junior Chemical—General Excellence.
Senior Electrical—General Excellence.
Senior Chemical—General Excellence.

Following are the prizes and medals donated by generous friends of the College:

Two gold medals for Excellence in Irish History, in the Preparatory Department, donated by the Ladies' Auxiliary of the Ancient Order of Hibernians and the Ancient Order of Hiberians.

The Rev. Bernard F. Kuhlman Prize for American History. The Rev. Bernard F. Kuhlman, D. D., Catholic Chaplain at the National Military Home, is the donor of an annual cash prize of $25 for the best essay in American History. The subject is assigned by the reverend donor. The contest is open to all students of the Preparatory and Collegiate Departments. The essay must show original research work and throw light on subjects of American History, especially such as are disputed today.

A gold medal for Elocution, donated by C. E. W. Griffith. This gold medal is decided in public contest. All students of the High School and Business Department are eligible to compete.

A gold medal for Excellence in English Studies, Freshman Letter Class, in memory of George A. Pflaum, Dayton, O.

A gold medal for Excellence in Mathematics and Physics, donated by the Hon. Thomas J. Coughlin, '93, of Cleveland, O.

A gold medal for Excellence in Christian Doctrine, in the Collegiate Department, donated by William H. Holters, of Covington, Ky.

A gold medal for Excellence in Theodicy, in the Senior Class, donated by the Rev. F. Joseph Kelly, '90, of Dayton, Ohio.

The Alumni Association is the perpetual donor of a gold medal to be awarded to a member of the graduating class for proficiency in English composition, both prose and verse. The competitions for the medal are held in December and March and comprise each time an essay and a piece of verse. Students who have distinguished themselves in composition during the year, and who have been active contributors to **"The Exponent"** are eligible to compete.

The Harry C. Busch Excellence Prize. The Hon. Harry C. Busch, '96, attorney of Cincinnati, is the donor of a cash prize of $20.00 in gold to the honor student of the Senior Letters Class, who at the time of graduation has the highest averages for Latin, Greek, English, and History for his entire Collegiate course.

Chicago Alumni Athletic Medal. The Chicago Alumni Association is the donor of a medal to be awarded the student excelling in all the Varsity sports at the College.

The Dr. D. G. Reilly Oratory Prizes. Dr. D. G. Reilly, one of the college physicians, has established an Oratory Endowment Fund of $1000.00, the annual proceeds of which realize three prizes of $30.00, $20.00 and $10.00 in cash to the three most successful participants in the annual Oratorical contest. All students of the Collegiate Department are eligible to compete.

The Rev. Charles Polichek Philosophy Prize. The Rev. Charles Polichek, pastor of the Holy Name Church, Dayton, Ohio, is the donor of a cash prize of $30.00 in gold, to be awarded to the two honor students in Philosophy. The first prize is $20.00, the second $10.00.

The Rev. Charles Polichek Junior Engineering Excellence Prize. The Rev. Charles Polichek is also the donor of a cash prize of $15.00, to be awarded to the Excellence student of the Junior Engineering Class.

The Rev. Charles Polichek History Medal. The Rev. Charles Polichek is also the donor of a gold medal to be awarded to the Excellence student in History of the Collegiate Department.

The Rev. Daniel A. Buckley Latin Medal. The Rev. Daniel A. Buckley, pastor of St. Raphael's Church, Springfield, Ohio, is the donor of a gold medal, for Excellence in Latin studies in the Sophomore Class.

The Rev. Otto B. Auer Elocution Prize. The Rev. Otto B. Auer, pastor of St. Mary's Church, Dayton, Ohio, is the donor of $30.00 in gold, to be awarded as cash prizes to the three most successful participants in the Annual Elocution Contest: $15.00 for the first, $10.00 for the second, and $5.00 for the third.

The John C. Shea Sociology Prizes. John C. Shea, a Dayton attorney, is the donor of three cash prizes, $15.00 $10.00 and $5.00 in gold, in memory of his mother, Mrs. Catherine Shea, for the best theses on "The Errors of Socialism."

The Rev. Charles Polichek Senior Chemical Engineering Excellence Prize. The Rev. Charles Polichek is the donor of a cash prize of $20.00 to be awarded to the Excellence Student of Senior Chemical Engineering Class.

The Rudolph Wurlitzer Music Medal. Rudolph Wurlitzer of Cincinnati, Ohio, is the donor of a gold medal for the Excellence student in Music.

Students who enter the College after January 1 cannot compete for awards.

The boarding and day-students whose average monthly standing in conduct and application is 95 per cent., receive honors for good conduct at the Annual Commencement. If, at the time of graduation from the Collegiate Department, a boarding students has been awarded honors for four year, two of which immediately preceding graduation, he is entitled to a medal for good conduct.

Promotions

Class promotions are determined at the close of the year by the result of the term examinations, by the monthly class percentages, and by the weekly competitions. The promotions are announced at the Annual Commencement.

Attendance at the courses is strictly enforced. A student who fails to attend ninety per cent. of the number of periods devoted to any one study cannot receive credit for that study.

A general average of seventy per cent. is required to receive credit in any study.

No student will be permitted to take part in athletic contests if he has not attained an average of seventy per cent. for his studies.

Degrees and Diplomas

A student of the Senior Class who, at Easter, has not attained an average of seventy per cent. for the monthly marks and the January examination, cannot compete for graduation honors in the following June.

Upon the attainment of sixty-six points, and the recommendation of the faculty, the Board of Trustees will confer the degree of Bachelor of Arts, or Bachelor of Letters, or Bachelor of Science.

These degrees will be conferred according to the candidate's scholarship with the mention **summa cum laude, or magna cum laude, or cum laude.**

Upon the successful completion of one of the Engineering courses, the degree of Bachelor of Mechanical, Electrical, Chemical or Civil Engineering is awarded with the mention **summa cum laude, or magna cum laude, or cum laude.**

A diploma is awarded to students who have completed either the High School or the Commercial Course and have passed a satisfactory examination.

Libraries

Besides the College library, there is a circulating library in the study hall of each division of boarding students.

DISCIPLINE

Methods

The sole object of the College is to impart to boys and young men a thoroughly Catholic education. Its government is designed to continue the family life. In order to secure the regularity and assiduity that are indispensable to the success of any educational work, the students are uniformly held to strict obedience, diligent application, and blameless conduct. The discipline is conservative in character, and designed to train the students to habits of self-control and gentlemanly conduct. The manner of enforcing the regulations is firm, yet mild and parental, and appeals chiefly to the student's conscience and sense of honor. Convinced of the insufficiency of merely human means to insure the true education of mind and will and heart, the authorities of the College place their chief reliance for the success of their educational work on the influence of religious principles and practices. Hence, the doctrine and precepts of the Catholic religion are taught in all classes, and the exercises of religion hold a prominent place among the daily recurring events of school life.

Regulations

The boarding students form four distinct divisions—the First, the Second, the Third, and the Fourth. Each division has its own study hall, playground, and club room.

The correspondence of the students is controlled by the authorities. No printed matter is allowed to circulate among the students until it has been examined and approved.

The students are not allowed to leave the grounds without a written permit.

Leave of absence is granted for one day, **on the last Sunday of each month,** to those among the boarding students whose marks for class work and deportment during the preceding month are satisfactory, and whose parents or relatives live in the city of Dayton.

The weekly holiday is Thursday. Sunday and Thursday are the most convenient days of the week for visiting students.

A short vacation is granted during the Christmas season and at Easter. No students are kept during the summer vacation.

It is of the utmost importance that the students be present every day of the academic session. Hence they should be prompt to return at the close of the vacations.

The ordinary causes for dismissal are insubordination and bad conduct.

DAY STUDENTS

During recreation and study hours the day-students form separate divisions.

The day-students are required to be at the College at 8:15 a. m. They may take dinner at the College by paying a slight additional charge, or they may bring a lunch with them from home. Class hours close at 3:30 p. m.

The day-students are expected to devote at least two hours at home to their studies every day.

Cleanliness, regularity, and gentlemanly conduct on the way to and from the College, as well as faithful observance of regulations, will be exacted form the day-students.

The day-students are expected to attend religious services in the parishes to which they belong, and they are therefore not required to attend the exercises held in the College chapel on Sunday.

The day-students are strictly forbidden to perform any commission for boarding students.

NECESSARY EXPENSES

Matriculation Fee (payable on first entrance)	$ 5 00
Tuition, Board, Laundry	240 00
Library, Athletic Fee, Physical Culture, and Admission to Lectures, Entertainments, Intercollegiate Games and Contests	10 00
Chapel Offering	5 00

PAYABLE IN ADVANCE, as follows:

On Entrance in September

Matriculation Fee (payable first year only)	$ 5 00
First Payment on Board, Tuition, and Laundry	120 00
Library, Atheletic Fee, etc	10 00
Deposit on Book and Stationery Account	10 00
Chapel Offering	5 00
Total	$150 00

On January 20

Board, Tuition, and Laundry $120 00

In this Second Payment must be included all Extra Expenses, such as charges for use of Laboratories, Music, etc., and any extra expenses the student may have incurred.

OPTIONAL EXPENSES

PRIVATE ROOMS, PAYABLE IN ADVANCE ..... $ 80 00 / 90 00 / 120 00

Owing to the fact that the number of private rooms is limited, money will not be refunded if a student loses the

privilege of his room. Exception is made to this ruling only in case of sickness.

Instrumental Music—

Piano with use of instrument, Grades A and B	$ 50 00
Grade C	55 00
Grade D	60 00
Violin (instrument furnished by pupil)	
Grades A and B	40 00
Grade C	50 00
Grade D	60 00
Orchestra or band membership—for music pupils	no charge
For others	5 00
Artistic Drawing and Painting	20 00
Use of Office Appliances (Business Department)	10 00
Phonography (private lessons)	10 00

Laboratory Fees—

Botanical and Zoological	$ 5 00
Chemical (High School)	10 00
Physical (High School)	10 00
Deposit for Breakage	10 00
Physical (Engineering Dept.)	15 00
Chemical " "	15 00
Biological " "	5 00
Mineralogical " "	5 00
Electrical " "	15 00
Mechanical " "	10 00
Civil " "	5 00
Drafting Room " "	5 00

Graduation Fee

For all courses leading to Bachelor Degrees, $10.00; High School and Business Courses, $2.00.

Rates of Day Students

Tuition rates for Day Students are payable half-yearly in advance, as follows:

Matriculation Fee (payable first year only)	$ 1 00
Elementary Department (per annum)	30 00
High School Department (per annum)	30 00
Business Course, with use of typewriter (per annum)	40 00
Collegiate Department (per annum)	40 00
Physical Culture	1 00
Laboratory and Graduation Fees—(as above).	
Dinner at the College (per month)	4 00

REMARKS

Repairs of all kinds are extra charges.

Books and stationery can be purchased at the College at current prices.

The College will not provide a student with clothing or extras unless a sufficient sum of money for this purpose be deposited with the Treasurer.

No deduction is allowed for the Christmas or Easter holidays.

Pocket money may be deposited with the Treasurer, to be given as prudence may suggest or occasion may require.

The College will not hold itself responsible for any valuables, such as money, rings, watches, etc., unless these are deposited with the Treasurer.

All Drafts and Checks Should be Made Payable to St. Mary College.

No Student will be Registered for a New Scholastic Year Unless His Account for the Previous Year is Settled.

Honors of Graduation will not be Conferred Upon Students Whose Bills have not been Paid.

Interest will be Charged on Bills of Six Months' Standing.

WARDROBE

Each boarding student should come provided with the following articles:

3 Suits—two for daily wear, one for Sundays.
1 Gymnasium Suit.
1 Overcoat.
3 Changes of summer underwear.
3 Changes of Winter Underwear.
6 Pairs of stockings or socks.
6 Shirts.
3 Suits of Pajamas.
12 Handkerchiefs.
4 Towels.
4 Napkins.
3 Neckties.
3 Pairs of Shoes.
2 Hats or caps.
Toilet articles.
1 Pair of Gymnasium Shoes.

It is not necessary to mark the articles of clothing, as they will be numbered at the college.

REGISTER OF STUDENTS

Abel, Herbert .....2d High A
Abele, Russell ....1st Business
Adelberg, Albert ....4th High
Alston, Mark .....4th High
Amersbach, Jos...8th Grade A
Anthony, John .....1st High C
Archer, Walter .....4th High
Arvai, Joseph ....7th Grade B
Baczenas, Eugene .2d High B
Bailey, Carl .....3d High B
Ball, Germain ....7th Grade B
Baker, Carl .....Fresh. Eng.
Behrer, Otto ....Junior Eng.
Berberich, Aloys ..1st High B
Berghoff, Edward ..2d High B
Best, Robert ....1st Business
Binger, Herbert ..1st High A
Blum, Paul .....1st Business
Boesch, William ....4th High
Bohnert, Herbert ..1st High A
Bohnert, Leander ..1st High A
Boggan, Roy ....8th Grade A
Bomhard, Fred.....5th Grade
Botschen, George.... 4th High
Bowman, Richard ..1st High B
Breen, John .....2d High B
Brennan, George ..Junior Eng.
Brennan, William ...4th High
Brightman, Latham .6th Grade
Brodowski, Bernard .6th Grade
Brown, Earnest .Sen. Business
Brunner, Carl ..1st Business
Bryan, George ....1st High B
Buerrer, Norman ..1st High A
Busch, Ralph .....3d High B
Byrne, Herbert ..1st High B
Cahill, Matthew.. ...4th High
Caluwaert, Charles.. 4th High
Carlton, William Sen. Business
Carr, Francis .....2d High B
Carroll, Thomas ...3d High B
Carton, Robert .....4th High
Cetinski, Colman ..3d High A
Christy, Paul .....2d High B
Coffitt, Charles ..7th Grade B
Coffield, James .....6th Grade
Cole, Ferrell..... ..6th Grade
Collins, Daniel .....4th High
Conkle, Jack .....5th Grade
Connolly, Joseph ..1st High A
Conrad, Howard ..2d High B
Conway, William ....4th High
Crowley, John ....Soph. Eng.
Daley, Lawrence ..2d High B
Deckwitz, Carl ...Fresh. Eng.
Deery, Carroll ....7th Grade B
Deger, Clarence .....4th High
Deger, Richard .....2d High B
Delscamp, R. ....7th Grade B
Delzeith, Carl ....8th Grade B
DeMaro, Clancy ...1st High A
Devereux, James...2d High B
Dickensheet, E. ...1st High C
Dineen, John .....2d High B
Dineen, William ...1st High C
Domanski, Joseph ..6th Grade
Donohue, Joseph .8th Grade B
Donohue, Robert ...6th Grade
Dorfer, William ...1st High C
Dorger, Raymond ..1st High C
Douglas, Stephen ..Soph. Arts
Doyle, Thomas .....5th Grade
Duell, John .....1st High B
Duffy, Edward .....4th High
Duffy, James ...Sen. Business
Dugan, Thomas ...1st High A
Dunne, Gerald ....Senior Arts
Dutle, Nicholas ...8th Grade B
Duwel, Charles ...1st High A
Dwyer, Edward ....2d High A
Dwyer, James .....4th High
Eckenrode, Robert ...4th High
Eckley, William .7th Grade B
Edmonson, George .2d High A
Ehret, Alvin.....1st High B
Eilerman, Robert ..2d High A
Elardo, Francis ....2d High B
Ellsworth, William .1st High B
Eslinger, Warren ...3d High B
Evans, Joseph ....Senior Arts
Ewald, George .....6th Grade
Farley, Francis ...1st High A
Favret, Louis .....4th High
Fillipowitz, Felix ..1st High A
Finan, Joseph .....4th High
Fischer, Ambrose 7th Grade B

Fitzpatrick, W ....1st High A
Flanagan, Joseph ..2d High A
Fleck, Charles .....1st High C
Fleck, Henry ....1st Business
Fleck, Vincent ...7th Grade B
Fletscher, James .1st Business
Flohre, Herman ....5th Grade
Flynn, Joseph .....2d High A
Focke, Vincent .....4th High
Foell, Philip .....7th Grade B
Forquer, Mark ...1st Business
Fox, Bernard .....3d High B
Gabler, Carl .....1st Business
Garrity, Frank ....Senior Arts
Garrison, Russell ..Soph. Eng.
Geiger, Raymond ..1st High B
Genard, Alexis .....3d High A
George, C. .....2d High A
Gerlaugh, Edward ..6th Grade
Gilvary, Joseph ....2d High A
Goebel, Glen .....6th Grade
Goldcamp, Clarence ..4th High
Gottbrath, Joseph..8th Grade A
Graziani, Ben. ....7th Grade B
Gross, Norwood ..7th Grade A
Grote, Richard .....3d High A
Grote, Walter .....1st High B
Grote, William .....1st High B
Haag, William .....3d High A
Hackett, John ....1st Business
Hackman, H. ..Sen. Business
Hadder, Edward .7th Grade B
Hagan, Percy .....3d High B
Hagan, Thomas ....2d High A
Hannahan, John ....4th High
Hennegan, Mark .1st Business
Happensack, Edward .4th High
Harshman, Samuel .3d High B
Hartshorn, Clement .4th High
Hatcher, James ....5th Grade
Hause, Alvin .....7th Grade A
Hayes, Robert ....7th Grade B
Heier, John .....Fresh. Eng.
Heile, Marcellus ...3d High A
Helmig, Raymond .1st High B
Hennessey, James. 1st High A
Hennessey, W. .Sen. Business
Henz, Walter ....1st High C
Herbst, Raymond .1st High C
Hess, Elmer .....Fresh. Eng.
Hess, Howard .....1st High C
Hickey, Robert ..Sen. Business
Hickey, William .Sen. Business
Hieber, Clarence....1st High C
Hipp La, Henry ...2d High B
Hipskind, A. .....1st High A
Hochwalt, Carroll ....4th High
Hochwalt, George ....4th High
Hochwalt, Justin ..2d High B
Hochwalt, Norman .Soph. Arts
Hodapp, Albert ...8th Grade B
Holland, Francis ...1st High C
Holloway, F. ....7th Grade A
Holters, Joseph ...Fresh. Eng.
Holtvoigt, H.....8th Grade A
Holtvoigt, John ..7th Grade B
Hook, Francis .....3d High B
Hook, Herbert ...Junior Eng.
Hopf, Henry .....5th Grade
Horan, Edward ....3d High A
Huber, Aloys.... ..2d High A
Hummert, Robert .Junior Eng.
Hutzel, Robert .....2d High B
Hunt, Perry .....8th Grade B
Janning, William 7th Grade B
Johnston, Farrell 8th Grade B
Johnston, William 7th Grade B
Jonas, Joseph ....7th Grade B
Joyce, Ralston .....1st High C
Kaiser, Robert.....2d High B
Karl, Wilbur .....1st High A
Kastl, John .....8th Grade B
Kauflin, August ...1st High B
Kegg, Francis .....3d High A
Kehoe, Thomas ....2d High A
Keller, Charles ..7th Grade B
Kennedy, John ....1st High C
Kernan, John .....1st High B
Kernan, Joseph ....3d High B
Kersting, Alvin ...Soph. Arts
Kessler, Emil .....4th High
Keyes, Julian ....8th Grade A
Kienhoefer, Joseph ...4th High
Kilcoyne, James ..1st High A
Killoran, John ....Fresh. Arts
Killoran, William .Senior Arts
King, Edward .....5th Grade
Kinninger, Daniel ..2d High B
Kinstle, George ....Soph. Arts
Kirby, George .....2d High A
Kirchdoerfer, R. ....4th High
Kirk, Richard ..Sen. Business
Kissling, L. .....7th Grade A
Kissling, William ...6th Grade

Klass, Edmund .....2d High B
Klin, Richard .....2d High B
Kline, John .....Senior Eng.
Koehnen, Jerome .7th Grade A
Koenig, Joseph ...8th Grade B
Kokenge, Joseph 8th Grade B
Kramer, Ralph .....3d High B
Kranz, Gerald, ...2d High A
Kronauge, Frank...1st High A
Krug, Carl .....1st High C
Krusling, Albert...Junior Eng.
Kuhn, Adrian .....3d High B
Kuhn, Joseph .....Soph. Eng.
Kuntz, Andrew .. ..
Kuntz, Edward .....4th High
Laffey, Francis .....4th High
Last, Nicholas ..Sen. Business
Laughlin, Edward ..2d High B
Lause, Charles .....3d High B
Lause, Eulogius ...Soph. Eng.
Lechleitner, E. ....Soph. Arts
Ledger, John ...Sen. Business
Leonard, Joseph .....4th High
Lepotsky, Wm. .....4th High
Lieniesch, T. .....3d High A
Ligday, Francis .....4th High
Liszak, George .....1st High C
Long, Edward .....2d High A
Lynch, Willis .....Fresh. Arts
Lyons, James .....3d High B
Macke, Francis ..7th Grade B
Mackmull, Matthew.1st High C
Mahoney, Francis Fresh. Eng.
Mahrt, Armin .....2d High B
Maley, Edward ....2d High B
Maley, Keefe .....2d High A
Malo, Louis .....8th Grade A
Maloney, Stephen 1st Business
Martin, Fred .....Fresh. Eng.
Marshall, Charles ..1st High A
Marshall, Roger .Sen. Business
Mason, Clarence ...3d High A
Massing, John ..Sen. Business
Masterson, James 1st Business
May, Alphonsus ....2d High A
McBaron, Louis ..8th Grade B
McBride, Edward ...3d High B
McCarthy, Anthony 1st High B
McCarthy, E. ....1st Business
McCarthy, Francis ..4th High
McCarthy, John ....3d High B
McCarthy, T. ....7th Grade A
McCloskey, James 8th Grade B
McDonough, Robert 1st High C
McFadden, Leroy...1st High B
McFarland, Dean ..Fresh. Arts
McIntosh, Louis ...2d High A
McVeigh, James ....6th Grade
Meikenhaus, Charles 2d High B
Mendez, Alfredo ..Fresh. Eng.
Menker, Edwin ....1st High A
Menninger, Joseph 8th Grade A
Menninger, L. .....1st High A
Merkle, Victor .....3d High B
Mescher, Walter ..1st High A
Meyer, Wesley .....6th Grade
Meyers, George ...8th Grade A
Michniewicz, A. ...1st High B
Moehring, Don ....Soph. Eng.
Moodie, Edmund ...2d High B
Montanus, L. .....Soph. Arts
Moore, Richard.....1st High C
Moosbrugger, Edwin 1st High C
Moosbrugger, Jos. Fresh. Eng.
Morris, Joseph ...1st Business
Moskowitz, Ben. ...2d High B
Mueller, Joseph ....2d High A
Murray, Charles ...1st High B
Murphy, John ....1st Business
Murphy, Joseph ....2d High B
Murphy, Virgil ....Soph. Arts
Muth, Richard .....2d High B
Myer, Joseph .....2d High B
Mylor, Bernard ...7th Grade B
Mylor, Thomas ...7th Grade B
Neu, Robert .....6th Grade
Niehaus, Charles ...2d High B
Nordhoff, Godfrey ..2d High B
Nugent, Clarence ....4th High
Nushawg, William ...4th High
Oberlander, John ..Senior Arts
O'Donnell, Martin .7th Grade B
O'Hearn, John ....8th Grade B
O'Hearn, Robert ....3d High A
O'Hearn, William .1st High C
Ohmer, Paul .....Fresh. Eng.
Olt, Russell.....Soph. Arts
O'Neil, John .....1st High B
Orth, Wilbur .....7th Grade B
Ostendorf, Carl ....1st High C
Oswald, Edward ....2d High A
Ovington, John .....4th High
Pabst, John .....1st Business
Paulick, Louis ...Fresh. Arts

Pauly, Victor.... ....4th High
Payne, Robert .....2d High B
Pektewicz, C. ....7th Grade A
Pfeiffer, William ...1st High C
Pflaum, George .....6th Grade
Piatt, Harold, ...7th Grade A
Piatt, Herschel .....6th Grade
Piatt, Joseph .....6th Grade
Plummer, Ray .....6th Grade
Plummer, Walter ..3d High A
Poeppelmeier, L. .8th Grade B
Poliquin, Alfred ...1st High C
Porter, Leslie .....Soph. Eng.
Punch, Richard ....3d High A
Rabbitt, Michael ..1st Business
Rabe, Alvin .....1st High B
Rahe, Yvon .....7th Grade A
Richter, Edwin .....Soph. Arts
Richter, Kelly .....1st High A
Riedinger, Carl ...8th Grade A
Riggs, Jack .....8th Grade B
Riley, James .....2d High B
Ritzert, Norman ...2d High A
Roberts, Carrollton 7th Grade B
Roderer, George ....2d High A
Rodenfels, Edgar .7th Grade A
Rogge, Herbert ....1st High B
Romer, Adolph ....Senior Arts
Rost, Henry .....1st High A
Roth, John .....Soph. Eng.
Rotterman, Robert ..2d High A
Ruder, Leon .....8th Grade B
Ryan, Carl .....Senior Arts
Ryan, Francis .....3d High A
Sacksteder, Flavian 1st High A
Sander, Edward ....2d High B
Scales, Robert ...1st Business
Scales, William ..7th Grade A
Schaefer, Joseph .Fresh. Eng.
Schilder, Kenneth .7th Grade A
Schleinitz, William Senior Arts
Schmackers, A. ...Fresh. Arts
Schmidt, Elsworth 7th Grade B
Schmidt, George ..2d High A
Schmidt, W. .....Fresh. Eng.
Schmitz, William ..2d High A
Schneider, Edward .1st High C
Schneider, Robert 1st Business
Schroeder, Henry .1st High B
Schroeder, Clarence 1st High B
Schroer, Robert ....2d High B
Schroeter, Ivo .....3d High A
Schumacher, Ambrose 4th High
Schumaker, Adam.8th Grade B
Schwartz, Herman .7th Grade B
Schroeck, George ..8th Grade A
Shearer, Ward .....2d High A
Sherman, Charles ...1st High C
Sherman, Elmer ....1st High C
Sherman, ONeill .....1st High B
Sherry, Walter ..Fresh. Eng.
Sherry, William ...Fresh. Eng.
Shouvlin, Ray .....3d High B
Shroyer, Arthur ....2d High A
Simpson, Francis ....4th High
Sinnott, L.....2d High A
Sitterle, Walter ..1st Business
Slattery, James ..Sen. Business
Smith, Anthony ..1st Business
Smith, Russell ...8th Grade A
Snyder, Edward ..1st High A
Sourd, Raphael ...Senior Arts
Spaite, A. .....3d High A
Spatz, John .....7th Grade B
Spatz, Wilbur ....7th Grade B
Sprunck, Carroll .7th Grade B
Staley, Paul .....4th High
Stanton, Paul .....Soph. Eng.
Starrett, Paul ....1st Business
Stebel, William ..8th Grade B
Stelzer, Ivo .....3d High A
Stephens, Basil ....6th Grade
Stout, George .....2d High A
Stuhlmueller, E. ..Soph. Arts
Strattner, George ...2d High B
Sullivan, Charles ..2d High B
Sunshine, T. ....Sen. Business
Timothy, H..... 1st Business
Treiber, Edward .....4th High
Turnbull, Edward .1st High C
Ullrich, Louis ....1st Business
Underwood, William .4th High
Unger, Aloys ....Sen. Business
Upham, Willard ....2d High A
Van Kirk, Orange ..6th Grade
Van Scoyk, Foster ..2d High B
Viel, Paul .....3d High B
Virant, Ludwig, ...Fresh. Arts
Wagner, Herbert .8th Grade B
Wagner, Philip ....Fresh. Eng.
Walsh, Albert .....2d High B
Worden, Thomas ...4th Grade
Wassenich, Charles .3d High B
Weber, Lawrence ..Fresh. Arts

Weckesser, Alphonse 3d High A
Weckesser, Urban ..3d High B
Weed, Harold ....1st Business
Weiler, Herbert ....1st High C
Weinert, Henry ....3d High A
Weis, Clifford .....4th High
Weis, Louis .....1st High A
Werner, Aloys ....8th Grade B
Wert, Bernard .....3d High A
Wuerstl, Joseph.....2d High A
Wertz, Chester.....2d High A
Weser, Edmund ....1st High B
Westbrock, N. ....8th Grade A
Westbrock, R. .....1st High B
Westendorf, V. ....1st High C
Westendorf, W. ....3d High B
Whelan, Leonard .8th Grade B
Willes, Joseph ....1st High C
Williams, R. .....1st High A
Windbiel, Joseph .Junior Eng.
Wirshing, Ralph ..Senior Eng.
Wittman, Louis ..8th Grade B
Wolf, Herbert .....2d High A
Wuertz, Raymond ..6th Grade
Yackley, Wilbur .....4th High
Zahn, Ralph .....5th Grade
Zimmerle, Raymond 1st High B
Zimmerman, A. ...Senior Eng.
Zitkus, Francis ....2d High B
Zoeller, Harold. ..8th Grade A
Zofkie, Cletus .....2d High A
Zubrod, John .....6th Grade

SOCIETIES

APOSTLESHIP OF PRAYER
in union with
THE LEAGUE OF THE SACRED HEART

The object of the Apostleship and League is to promote interest in the great movements of the times for the true welfare of mankind, by uniting prayers and good works with the intention of the Sacred Heart of Jesus. Devotions to the Sacred Heart are held on all the First Fridays. Membership is confined to the students who have received their first Holy Communion. Number of members, 500.

PROMOTERS

Non-Resident Students

Boesch, William
Breen, John
Duffy, Edward
Elardo, Frank
Hochwalt, George
Hook, Francis
Kinstle, George
Kuhn, Joseph
Lechleitner, Edw.
Moosbrugger, Jos.
Roth, John
Westendorf, W.

Resident Students

Brunner, Carl
Dunne, Gerald
Eilerman, Robert
Evans, Joseph
Grote, Richard
Heile, Marcellus
Leonard, Joseph
Lynch, Willis
McCarthy, T.
Montanus, L.
Rabe, Alvin
Stuhlmueller, E.

SODALITY OF THE IMMACULATE CONCEPTION

The Sodality of the Immaculate Conception was established at the College in 1875. Its object is to foster in the hearts of the students a tender love for the Mother of God. The Sodality has special devotional exercises every Saturday. Number of members, 215.

St. Gregory's Branch

OFFICERS

Gerald E. Dunne ..... *Presiident*
Carl J. Ryan ..... *Vice-President*
Raphael A. Sourd ..... *Secretary*
Francis J. Garrity ..... *Treasurer*
Edw. P. Stuhlmueller ..... *Sacristan*
William J. Killoran ..... *Librarian*
Rev. Aloys Schratz, S. M. ..... *Moderator*

MEMBERS

Collins, Daniel
Deger, Clarence
Finan, Joseph
Hannahan, John
Heider, Francis
Huber, Aloys
Kinstle, George
Lechleitner, Edw.
Leonard, Joseph
McFarland, Jos.
Montanus, L.
Oberlander, John
Paulick, Louis
Richter, Edwin
Romer, Adolph
Synnett, Peter
Weber, Lawrence
Virant, Ludwig

Branch No. 1

OFFICERS

Joseph Evans ..... *President*
William Sherry ..... *Vice-President*
Norman Hochwalt ..... *Secretary*
Rev. Joseph Tetzlaff, S. M. ..... *Moderator*

MEMBERS

Adelberg, Albert
Boesch, William
Caluwaert, E.
Carton, Robert
Conway, William
Duffy, Edward
Dwyer, James
Eckenrode, R.
Favret, Louis
Goldcamp, C.
Hackett, John
Hochwalt, Carroll
Hochwalt, George
Holters, Joseph
Killoran, John
Kuntz, Edward
Ledger, John
Lepotsky, William
Lynch, Willis
Lyons, James
Martin, Fred'rick
Murphy, John
Nugent, Clarence
Porter, Leslie
Roth, John
Schmidt, W.
Staley, Paul
Sunshine, T.

Branch No. 2

OFFICERS

Francis Hook ..... *President*
Ralph Busch ..... *Vice-President*
Thomas Carroll ..... *Secretary*
Joseph Gilvary ..... *Treasurer*
Rev. Walter Tredtin, S. M. ..... *Moderator*

MEMBERS

Abel, Herbert
Abele, Russell
Baczenas, Eugene
Brinkman, Irvin
Breen, John
Bryan, George
Carlton, Wm.
Carr, Francis
Cetinskl, Coleman
Daley, Lawrence
Dwyer, Edward
Eilerman, Robert
Elardo, Frank
Fleck, Henry
Genard, Alexis
Hagan, Percy
Heile, Marcellus
Hochwalt, Justin
Kirchdorfer, R.
Kranz, Gerald
Kuhn, Adrian
Kinninger, D.
Laughlin, E.
Lienisch, T.
Maloney, Stephen
Marshall, Roger
Massing, John
May, Francis
Meikenhouse, C.
Muth, Richard
McCarthy, E.
Payne, Robert
Sitterle, Walter
Stelzer, Ivo
Strattner, George
Stout, George
Wassenich, C.
Westendorf, W.

Branch No. 3

Officers

Carl Brunner ..... *President*
Cletus Zofkie ..... *Vice-President*
George Edmonson ..... *Treasurer*
Matthew Mackmull ..... *Secretary*
Rev. Clement Wulf, S. M. ..... *Moderator*

Members

Buerrer, Norman
Brunner, Carl
Dorfer, William
Edmondson, G.
Ellsworth, W.
Fillipowitz, F.
Grote, Walter
Kernan, Emmet
Krug, Carl
Mackmull, M.
McCarthy, A.
Moosbrugger, E.
Rabe, Alvin
Elsworth, S.
Schneider, E.
Sherman, Charles
Sherman Elmer
Spatz, Wilbur
Stokes, James
Suerdick, Carl
Turnbull, Edwin
Westbrock, R.
Zimmerle, R.
Zofkie, Cletus

Branch No. 4

Officers

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Carl Riedinger ..... *Vice-President*
Harold Piatt ..... *Secretary*
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Boggan, Roy
Brightman, L.
Deery, Carroll
Doyle, Thomas
Fleck, Vincent
Gottbrath, J.
Hayes, Robert
Hadder, Edward
King, Edward
Macke, Francis
Meyers, George
McCarthy, T.
McVeigh, James
O'Donnell, Martin
Piatt, Herschel
Piatt, Joseph
Rahe, Yvon
Rodenfels, Edgar
Scales, William
Schilder, Kenneth
Schroeck, G.
Malo, Louis
Schwartz, H.
Ball, Germain
Donohue, R.
Kissling, W.
Arvai, Joseph
Coffits, Charles
Eckley, William
Holtvoigt, John
Janning, William
Johnston, Wm.
Wittman, Leon
Jonas, Joseph
Orth, Wilbert
Spatz, John
Gross, Norwood
Holloway, Folger
Holtvoigt, H.
Kissling, L.
Petkewicz, C.
Smith, Russell
Westbrock, N.
Delzeith, Carl
Donohue, Joseph
Johnston, Farrell
McCloskey, James
Peoppelmeier, L.
Schumaker, Adam

HOLY NAME SOCIETY

The Holy Name Society was organized among the students at the annual retreat, 1904. Its object is to prevent the use of profane and immodest language, and thus to promote the interests of the Holy Name of God.

The resident students are grouped by divisions, the non-resident students by classes. Branch meetings are held once a month, and the board of General Officers meets once a month. Number of members, 437.

GENERAL OFFICERS

Raphael A. Sourd ..... *President*
Carl J. Ryan ..... *Vice-President*
Joseph W. Evans ..... *Secretary*
Norman Hochwalt ..... *Treasurer*
Dean McFarland ..... *Librarian*

BRANCH OFFICERS

Resident Officers

No.	*President*	*Vice-President*	*Treasurer*
1.	Mahoney, F.	Porter, Leslie	Sourd, Raphael
2.	Hannahan, J.	Leonard, Joseph	Underwood, W.
3.	Sunshine, T.	Lyons, James	Huber, Aloys
4.	Busch, Ralph	Heile, Marcellus	Finan, Joseph
5.	Devereux, J.	McCarthy, E.	Kranz, Gerald
6.	Slattery, J.	Edmondson, G.	McDonough, C.
7.	Mueller, Joseph	Menninger, L.	Buerrer, Norman
8.	Hannegan, M.	Menninger, J.	Malo, Louis

Non-Resident Officers

No.	*President*	*Vice-President*	*Treasurer*
1.	Kinstle, G.	Hochwalt, N.	Schaeffer, Joseph
2.	Collins, Daniel	Ledger, John	Yackley, Wilbur
3.	Hook, Francis	McCarthy, John	Kernan, Joseph
4.	Breen, John	Hochwalt, Justin	Deger, Raymond
5.	Hagan, T.	Kirby, George	Oswald, Edward
6.	Moosbrugger, E.	Byrne, Harry	Helmig, Raymond
7.	Westbrock, R.	Farley, Francis	Fitzpatrick, W.
8.	Delzeith, Carl	Hodapp, Albert	McBaron, Louis
9.	Janning, W.	Holtvoigt, John	Ball, Germain

ST. JOHN BERCHMAN ACOLYTICAL SOCIETY

First Division

Botschen, G.
Carton, Robert
Dunne, Gerald
Finan, Joseph
Garrity, Frank
Hannahan, John
Huber, Aloysius
Killoran, John
Killoran, William
Last, Nicholas
Leonard, Joseph
Lynch, Willis
Lyons, James
Martin, Fred'rick
McFarland, Dean
Mendez, Alfredo
Montanus, L.
Nugent, Clarence
Oberlander, J.
Richter, Edwin
Romer, Adolph
Staley, Paul
Stuhlmueller, E.
Windbiel, Joseph

Second Division

Bryan, George
Carlton, William
Dugan, Thomas
Genard, Alexis
George, C.
Kirchdorfer, R.
Kranz, Gerald
Masterson, James
McCarthy, E.

Third Division

Berghoff, E.
Dineen, John
Edmondson, G.
Ellsworth, W.
Rabe, Alvin
Roberts, C.
Schmidt, George
Stokes, James
Suerdieck, Karl
Sullivan, James
Turnbull, Edwin
Zofkie, Cletus

Fourth Division

Amersbach, J.
Brightman, L.
Deery, Carroll
Gottbrath, Joseph
Hadder, Edward
Hannegan, Mark
Hayes, Robert
King, Edward
Macke, Frank
Malo, Louis
McCarthy, T.
Meyers, George
Zubrod, John
O'Donnell, M.
Piatt, Harold
Rahe, Yvon
Riedinger, Carl
Scales, William
Schilder, K.

THE S. M. C. EXPONENT

The Exponent, a monthly magazine, edited and published by the undergraduates, is the literary, social and athletic organ of the student body. As its name indicates, The Exponent is an index of student life at St. Mary College in all its varied phases. Each month's issue contains representative work of the pupils in the departments of philosophic, scientific and literary study in which their mental activity is exercised; and a detailed chronicle of the events of college life, together with live news of alumni and athletic prowess, all prove of special interest to a wide circle of parents, relatives, alumni and friends of the college. The Exponent carries practically every live merchant and manufacturer as advertisers in its pages, and appears to be a good medium of advertising for Dayton business men, as well as manufacturers out of town.

Editorial Staff

Editor-in-Chief ..... Carl J. Ryan, '16

Assistant Editors-in-Chief ..... Raphael A. Sourd, '16; Edward Stuhlmueller, '17

ASSISTANT EDITORS

Gerald E. Dunne, '16
Edw. Stuhlmueller, '17
George R. Kinstle, '17
Raphael A. Sourd, '16
Normal C. Hochwalt, '17
Leslie Porter, '18

LYCEUM LECTURE COURSE

For the past seven years St. Mary College has offered attractive lecture courses to the student body and to the people of Dayton. The courses have been attended by practically the entire student body and a large number of Dayton people. These lecture courses have brought to Dayton entertaining and instructive lecturers.

Sidney Landon .....*In "Character Studies of Great Men"*
Thursday, October 14, 1915

Noah Beilharz .....*In "The Music Master"*
Monday, November 8, 1915

Robert Parker Miles.....*In the Dramatic Lecture "Dawn"*
Monday, November 29, 1915

Dunbar Male Quartet ..... *Singing Quartet-Brass Quartet*
Wednesday, December 15, 1915

Wood Briggs .....*In "It's Funny, But Is It Art?"*
Wednesday, January 12, 1916

Tom Hendricks .....*In "Puncture Proof People"*
Wednesday, February 9, 1916

Joseph O'Meara ....*Monologuist, in "Miscellaneous Program"*
Monday, February 28, 1916

CONCERTS GIVEN BY THE S. M. C. ORCHESTRA AT THE LECTURE COURSE:

Prelude—"Star Spangled Banner" .....Keyes
March—"Periscope" .....Allen
Cornet Solo—"Erlking" .....Schubert
"La Cinquantaine" .....Gabriel-Marie
March—"Starry Jack" .....Hildreth
March—"America First" .....Losey
Andante from the Surprise Symphony .....Haydn-Tobani
Carmen March .....Bizet-Tobani
"Echoes of the Opera" .....Recker
"Largo" .....Haendel-Recker
March—"Pasadena" .....
March—"Fighting Strength" .....Allen
Waltz—"Aloha Oe" .....Lake
"A Perfect Day" (Cornet Solo) .....Jacob-Bonds
March—"On a Joy-Ride" .....Marsh
"Sextet" from "Lucia di Lammermoor" .....Donizetti
March—"Light Cavalry" and "Poet and Peasant".....Lake
March—"America, I Love You" .....Lesslie-Gottler
March—"Thundering Cannons" .....Wacek
Overture—"Czar and Zimmerman" .....Lortzing-Tobani
March—"Tannhauser" .....Wagner

The C. E. W. Griffith Gold Medal Elocution Contest

December 8, 1915

1. *The Polish Boy* ..... Alvin Rabe
2. *Curfew Must Not Ring To-night* ..... George Roderer
3. *The Engineer's Story* ..... Joseph Gilvary
4. *The Baldheaded Man* ..... Edwin Turnbull
5. *The Deserter* ..... Harry Binger
6. *One of the Heroes* ..... Anthony McCarthy
7. *The Black Horse and Its Rider* ..... Clancy DeMaro
8. *Lasca* ..... Howard Conrad

Judges..... Rev. Bernard Robers, Victor C. Smith '05, Henry Hollencamp, Jr.

The Annual Contest for the Rev. Otto B. Auer Elocution Prizes, $15, $10 and $5 in Gold

December 19, 1915

1. *Horatius at the Bridge* ..... Thomas Sunshine
2. *The Chariot Race* ..... Joseph Holters
3. *Asleep at the Switch* ..... William Carlton
4. *The Madonna of Palos* ..... Joseph Leonard
5. *Spartacus to the Gladiators* ..... Daniel Collins
6. *The Soul of the Violin* ..... Edward Happensack
7. *The Leper* ..... Dean McFarland
8. *Vesuvius and the Egyptian* ..... Charles Lause

S. M. C. DRAMATIC ASSOCIATION

The S. M. C. Dramatic Association fosters and cultivates a taste for elocution, oratory and the drama. Under its auspices dramatic entertainments are given, and elocution and oratorical contests are held.

"The Proud Prince," Presented by St. Mary College Dramatic Club

Sunday, May 7, and Monday, May 8, 1916

PROGRAM

1. March—"His Majesty, the King" ..... Losey
2. Overture—"In Sunny Sicily" ..... Gray

ACT I

The royal gardens of Palermo.

3. Overture—"Raymond" ..... Thomas

ACT II

Scene I—The dungeon of the palace.
Scene II—The ante-room to Lady Blanche's Apartments.
Scene III—The throne-room.

4. Overture—"La Dame Blanche" ..... Boieldieu

ACT III

The royal gardens of Palermo.

5. March—"The King's Fool" .....Hirst

ACT IV

Scene I—Ante-room to Lady Blanche's Apartment.
Scene II—The Throne-hall.
Scene III—The royal gardens of Palermo.

6. March—"Wedding Sounds" .....Fahrbach

ACT V

Interior of the court-chapel.

7. March—"Weep No More My Lady" .....Gilbert

Incidental Music

1. Magnificat .....Gregorian
2. Regina Coeli .....Lotti
3. Farewell .....Henry Lai Hipp
4. Serenade .....Henry Lai Hipp

CAST OF CHARACTERS

Count Raymond, Chancellor of the Realm ....*Joseph Holters*
Count of Melazzo, Aspirant to the chancellorship..... *Wm. Schleinitz*
Duke Urban, Royal Treasurer .....*Virgil Murphy*
Terranova, Master of the Hounds .....*John Oberlander*
Robert, King of Sicily .....*Robert Eckenrode*
The Angel .....*Ralph Wirshing*
Valentine, a courier .....*Willis Lynch*
Alphonso, a page to Princess Blanche.....*Daniel Collins*
Romeo, a troubadour .....*Henry Lai Hipp*
Motley, a court fool .....*Lawrence Montanus*
Martin, a desperate swain .....*Joseph Evans*

Conspirators—
First Peasant .....*William Carlton*
Second Peasant .....*Alphonse Weckesser*

Soldiers—
Dean McFarland, Louis Favret, Clarence Deger, Paul Starrett.

Attendant .....*Robert Carton*

Monks—
Frank Garrity, Eugene McCarthy, John Oberlander, Lawrence Montanus, Edwin Richter, Adolph Romer, Paul Staley, Edward Stuhlmueller, Joseph Windbiel.

Pages—
Theodore McCarthy, Thomas Worden, Joseph Gottbrath, Joseph Amersbach.

Program of the Shakespeare Tercentenary Celebration at St. Mary College, Dayton, Ohio. Monday, April 17, 1916. Ten O'Clock, A. M.

FIRST PART

The Planting of the Shakespeare Oak

Procession of the Students to the Selected Site.
Bugler ..... *T. Sunshine*, '16
Drummers ..... *R. Payne*, '22 and *G. Ball*, '25
Address—"The Spirit of the Day"..*Rev. B. P. O'Reilly, S. M.*
The Planting of the Tree by..... *Class Representatives*

SECOND PART

1 Overture—Inspiration ..... *Hayes*
S. M. C. Student Orchestra
2 Address—A Sketch of Shakespeare..... *C. J. Ryan*, '16
3 Violin Solo—"Air in G"—Opus 28..... *Goldmark*
Joseph Moosbrugger, '19
4 Selection from Hamlet..... *W. O'Hearn*, '23
Hamlet to the Players
5 Selection from Henry VIII..... *H. Binger*, '23
The Fall of Wolsey
6 Selection from Macbeth—The Dagger Scene.*D. Collins*, '19
7 Address—The Study of Shakespeare..... *G. Dunne*, '16
8 Hawaiian Airs ..... *H. Lai Hipp*, '22
9 Address—Shakespeare as a Theological Writer
A. Scurd, '16
10 Selection from Richard III—The Dream of Clarence
A. McCarthy, '23
11 Selection from King John—Prison Scene.*E. Eilermann*, '21
A. Weckesser, '21
12 Address—Love in Shakespeare's Heroines...*J. Evans*, '16
13 March—"Hamiltonian" ..... *Hall*
R. Helmig, '23 and *E. Moosbrugger*, '23
R. Westbrock, '23 and *G. Kinstle*, '17
14 Address—Shakespeare and the Bible....*W. Schleinitz*, '16
15 Selection from Merchant of Venice..... *J. Gilvary*, '22
(Casket Scene)
16 Selection from As You Like It..... *J. Murphy*
(The Seven Ages of Man)
17 Shakespeare's Demonology ..... *W. Lynch*, '18
18 Address—Was Shakespeare a Catholic?..*L. Montanus*, '17
19 March—The Trumpeter ..... *Wheeler*
S. M. C. Student Orchestra.

THE FOURTH ANNUAL CONTEST

For the Dr. D. G. Reilly Prizes in Oratory

$30—$20—$10 in Gold

Sunday, April 16, 1916, 8:00 P. M.

"The March of Marches" ..... *Van Praag*
"The Palms" ..... *Faure*
Oration—"Mother" ..... *Joseph W. Evans*, '16
Oration—"The Advantages of a College Education"
Joseph W. Holters, '19

Violin Solo:
"Liebesfreud" ..... *Kreisler*
Joseph Moosbrugger, '19
Oration—"The American Flag and Imperialism"
Carl J. Ryan, '16
Oration—"Competitive Athletics" .. *J. Dean McFarland* '18
Descriptive—"Grandfather's Clock" ..... *Castle*
Oration—"Success, An Object of Envy"
Francis J. Garrity, '16
Oration—"Modern Womanhood" .. *George R. Kinstle*, '17
"The Tar's Farewell" ..... *Adams-Macey*
S. M. C. Glee Club

INTERMISSION

"Largo" ..... *Haendel*

Decision of Judges ..... { *George E. Burba*, *Thomas Emmett Moore*, *Charles W. Wuichet* }

March—"In Gay New York" ..... *Brown*
Music by S. M. C. Orchestra

THE BERNARD KUHLMAN LITERARY CIRCLE

Third High B

OFFICERS

Ralph Busch ..... *President*
Percy Hagan ..... *Secretary*
Warren Eslinger ..... *Treasurer*
Francis Hook ..... *Class Historian*

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Thomas Carroll
Bernard Fox
Alexis Genard
Samuel Harshman
Joseph Kernan
Ralph Kramer
Adrian Kuhn
Charles Lause
James Lyons
Edward McBride
John McCarthy
Raphael Shouvlin
Paul Viel
Charles Wassenich
Urban Weckesser
Walter Westendorf

THE FORUM LITERARY CIRCLE

Second High B

Joseph Murphy ..... *President*
Charles Sullivan ..... *Vice-President*
John Breen ..... *Secretary*
Edward Berghoff ..... *Treasurer*

The motto of the Circle was "Esto Vir," the colors, Blue and Gold. The meetings were well attended and interesting at all times. Several stereoptican lectures were given and further interest was aroused in the work done by the offer of a cash prize for the best essays and talks. The members published a weekly called the "SIBCA." The word is formed by combining the first letters of the following: Second High B Class Association. Three volumes, of ten numbers each and an Annual were published.

THE BRYANT LITERARY CIRCLE

Third High A

OFFICERS

Robert Eilerman ..... *President*
Richard Grote ..... *Vice-President*
Alphonsus Weckesser ..... *Secretary*
Theodore Lienesch ..... *Treasurer*
Eugene Mason ..... *Historian*

MEMBERS

Eilerman, R.
Genard, Alexis
Grote, Richard
Heile, Marcellus
Kegg, Francis
Punch, Richard
Plummer, Walter
Schroeter, Ivo
Wert, Bernard
Ryan, Francis
Cetinskl, Colman
Haag, William
Horan, Edward
Lienesch, Theo.
Mason, Eugene
O'Hearn, Robert
Spaite, Cecil
Weckesser, A.
Weinert, Henry
Stelzer, Ivo

S. M. C. ORCHESTRA

Louis Vogt, S. M., *Director*

The Music Department of the College is intended primarily to accommodate those who wish to pursue the study of music for its cultural advantages and as a refined accomplishment.

The students of the Department of Music are encouraged to acquire the proficiency requisite for membership in the Student Orchestra, S. M. C. Orchestra, and S. M. C. Band. These musical organizations give recitals and concerts in the course of the year and furnish the music at all dramatic and athletic events. They have been well received for years and have earned the continued favor of large audiences by their exceptional rendition of classical as well as popular programs.

S. M. C. CHOIR

Voice culture is fostered in all departments of the College. Sight singing is taught to the younger students who are encouraged to become members of the S. M. C. Choir of select voices. Students of the Collegiate Department are eligible to membership in the S. M. C. Glee Club, a popular organization among the young men of the College.

CONCERT GIVEN BY THE S. M. C. STUDENT ORCHESTRA MARCH 1, 1916

PART I.

1. March "Boccaccio" (Orchestra) ..... *Suppe*
2. Song "Far Away" (Orchestra) ..... *Neibig*
3. Song "Absence and Return" (Orchestra) ..... *Abt*
4. Song "Gruesse Dich du Theure Heinmath" ..... *Lindan*
5. Song "Home Again" ..... *Engelmann*
6. Melody of Love (Orchestra) ..... *Neibig*
7. Hawaiian Airs (Guitar Solo) by ..... *Henry Lai Hipp*

PART II.

9. March "Geburtstagfeier" ..... *Berner*
   Violins—Raymond Westbrock, Raymond Zimmerle, Raymond Helmig. Piano—Lawrence Montanus.
10. "Mazurka No. 2" (Piano Solo by Geo. Kinstle) ... *Godard*
11. Cornet Solo "Silver Threads Among the Gold" ... *Glover*
12. Cornet Solo "A Perfect Day" ..... *Bond*
    Cornet—Thos. Sunshine; Piano—Geo. Kinstle.
13. "Marche Triomphale ..... *Drdla*
    1st Violin—Jos. Moosbrugger; 2nd Violin—Edwin Moosbrugger. Piano—Lawrence Montanus.
14. "Humoresque" (Piano Solo by L. Montanus) .... *Dvorak*
15. Sextet—Hungarian Dance "La Zingana" ..... *Bohm*
    Violins—Jos. Moosbrugger, Edwin Moosbrugger, R. Westbrock, Raymond Zimmerle, Raymond Helmig, Lawrence Montanus.
16. Largo ..... *Haendel*
17. Traumerei and Romance ..... *Schumann*
    Violins—Harold Weed, Jos. Moosbrugger, Ed. Moosbrugger, Raymond Westbrock, Raymond Zimmerle, Raymond Helmig. Piano—Lawrence Montanus.

PART III.

18. Selections from Faust (Orchestra) ..... *Gounod*
19. Violin Solo "Album Leaf" (E. Moosbrugger) ..... *Bohm*

20. "Valse Pathetique" (Orchestra) ..... *Onivas*
21. Violin Solo "Valse Triste" (Jos. Moosbrugger) .. *Sibelius*
22. "Hawaiian Airs" (Guitar Solo) by ..... *Henry Lai Hipp*
23. March "The Trumpeter" ..... *Wheeler*

MEMBERS OF THE ORCHESTRA

First Violins—Joseph and Edwin Moosbrugger, Harold Weed. Second Violin—Raymond Westbrock, Raymond Zimmerle, R. Helmig. Clarinet—Clarence Goldcamp. Cornet—Thomas Sunshine. Bass—Lawrence Montanus. Piano—Geo. Kienstle. Director—Louis Vogt, S. M.

RECITAL GIVEN BY THE VIOLIN STUDENTS, MONDAY MARCH 13, 1916

"Valse"—*Conti* ..... Lewis Ullrich
"Legend"—*Conte* ..... Graziani
"Festival March"—*Reich* ..... Herbert Bohnert
"Tannhauser March"—*arr. Greenwald* ..... Joseph O'Donnell
"Secret Love"—*Resch* ..... Albert Hodapp
March "Aida"—*Verdi* ..... Norbert Westbrock
Berceuse "Caroline"—*Fischel* ..... Raymond Zimmerle
Transcription "Il Trovatore"—*arr. Winner* ... Ray. Westbrock
Fantasie "Air Varie"—*Dancla* ..... Raymond Helmig
"Awakening of the Lion"—*Kontski* ..... Louis Wittmann
Waltz "Frolics of Spring"—*Barret* ..... Howard Dynes
"Angel's Serenade"—*Braga* ..... Eldon Reynolds
"Concert Solo"—*Dancla* ..... Harold Weed
"Concertino No. II"—*Bohm* ..... Edwin Moosbrugger

S. M. C. ATHLETIC ASSOCIATION

FOOTBALL BASEBALL BASKET-BALL
TRACK FIELD TENNIS

Football, basket-ball, baseball, track, field and tennis are fostered without interfering with the class standing of the students. Athletics there does its part in completing the physical development of the young man, and gives the necessary distraction to break up the otherwise monotonous run of college life.

Five spacious campuses accommodate the entire student body. A quarter-mile cinder path makes possible the development of track work, as well as the scheduling of meets in Dayton. Four large club rooms equipped with light gymnastic apparatus, basket-ball courts, bowling alleys, billiard and pool tables and a variety of games adapted to the age of the students, offer unsurpassed facilities to entertain the student body during inclement weather and during the winter season when outdoor exercises and sports are impossible. The basket-ball court in the gymnasium for the intercollegiate games of the Varsity and Academy Teams is one of the largest in the State.

Coaches are in charge of the different departments of athletics. By the interest they have stimulated these past years, St. Mary has met and defeated the best teams in the State.

In addition to the athletic events controlled by the Athletic Association, a systematic course in physical training and military drill is given by an experienced physical director, Professor Carl Mettler. The course comprises hygienic, corrective, recreative and competitive work. *See Bulletin, Page 59.*

OFFICERS

Frederick G. Paff, S. M. ..... *Moderator*
Joseph W. Evans ..... *President*
William Sherry ..... *Vice-President*
William Schleinitz ..... *Business Mgr.*
Leslie Porter ..... *Secretary*

Alston, Mark
Adelberg, Albert
Archer, Walter
Brennan, George
Blum, Paul
Botschen, George
Caluwaert, C.
Conway, William
Carton, Robert
Douglas, Stephen
Dunne, Gerald
Finan, Joseph
Forquer, Mark
Favret, Louis
Goldcamp, C.
Garrity, Frank
Hummert, R.
Holters, Joseph
Hackett, John
Huber, Aloys
Hennessey, W.
Happensack, E.
Hannahan, John
Killoran, William
Killoran, John
Lynch, Willis
Lepotsky, W.
Laffy, Frank
Ligday, Frank
Last, Nicholas
Leonard, Joseph
Lyons, James
Mendez, Alfredo
Murphy, Virgil
Mahoney, Frank
Martin, Fred
Montanus, L.
Murphy, John
McFarland, Dean
Nugent, Clarence
Oberlander, John
Porter, Leslie
Plummer, Walter
Richter, Edwin
Romer, Adolph
Smith, Anthony
Schumackers, A.
Stuhlmueller, E.
Sourd, Raphael
Scales, Robert
Staley, Paul
Sunshine, T.
Treiber, Edwin
Underwood, W.
Virant, Ludwig
Windbiel, Joseph
Wagner, Philip
Rabbitt, Mich.
Ovington, John
Krusling, Albert
Sinnott, L.
Shouvlin, Ray
Weber, Lawrence
Ryan, Frank
Busch, Ralph
Bryan, George
Carroll, Thomas
Eilerman, Robert
Genard, Alexus
Kirchdoerfer, R.
Maierhoefer, Carl
Punch, Richard
Mahrt, Armin
Lei Hipp, Henry
Grote, Richard
Hachman, Henry
McCarthy, E.
Heider, Frank
Deckowitz, Carl
Lechleitner, Edw.
Baker, Carl
Kinstle, George
Ryan, Carl
Gilvary, Joseph
Schaeffer, Joseph
Brennan, W.
Kuntz, Edward
Collins, Daniel
Hochwalt, N.
Ohmer, Paul
Moehring, Don
Schmidt, W.
Roth, John
Hess, Elmer
McCarthy, F.
Unger, Aloys
McIntosh, Louis

S. M. C. ALUMNI ASSOCIATION OFFICERS

President—Francis C. Canny, '09.
Vice-President—Thomas J. Coughlin, '93.
Executive Secretary—Harry F. Finke, '02.
Financial Secretary—Carl L. Cappel, '03.
Corresponding Secretary—J. Clarence Hochwalt, '06.
Treasurer—Bernard M. Focke, '02.

Board of Governors

Dayton Alumni — **Out-of-Town Alumni**

Term Expires June, 1919

Joseph J. Abel, '93.
Al. J. Ward, '99.
Walter L. Connors, '05.
John F. Maher, '96.
Rev. Martin Varley, '06.
August J. Janszen, '11.

Term Expires June, 1918

Bernard M. Focke, '02.
Harry F. Finke, '02.
William A. Pflaum, '07.
Edward C. Schoen, '03.
Henry G. Janszen, '04.
Edward M. Miller, '94.

Term Expires June, 1917

Carl W. Cappel, '13.
J. Clarence Hochwalt, '06.
Francis C. Canny, '09.
Harry C. Busch, '96.
Matt. N. Blumenthal, '97.
Rev. Aloys C. Angel, '04.

CHICAGO CHAPTER

Pres.—Edw. C. Schoen, '02.
Sec.—Paul Wenigman, '07.
Vice-Pres.—J. Burgmeier, '02.
Treas.—Joseph Windbiel, '92.

CINCINNATI CHAPTER

Pres.—H. J. Robbins, '69.
Sec.-Treas.—H. C. Busch, '96.

Board of Governors

J. J. Robbins, '69.
Chas. B. Wittrock, '77.
Harry C. Busch, '96.
Fred Topmoeller, '07.
August Janszen, '10.
Louis Homan, '75.
Hugh L. Conway, '91.
Henry G. Janszen, '04.
B. W. Freeman, '08.
Leonard Heile, '12.

COLUMBUS CHAPTER

Pres.—E. F. Dorgan, '76.
Sec.—John W. Keegan, '94.
Vice-Pres.—T. Macklin, '12.
Treas.—C. H. Dietrich, '83.

The Sixty-sixth Annual Commencement

Thursday Afternoon, June 15, at 2 o'clock

March—"College Alumnus" ..... *Bowman*

Hymn—"America" ..... *Smith*
Audience and Orchestra

Salutatory ..... *Ralph J. Wirshing*

March—"Empire State" ..... *Winstein*

Address—The Right Rev. Thomas F. Hickey, D. D., Bishop of the Diocese of Rochester, N. Y.

March—"The High School Graduate"..... *Castle*

AWARDING OF MEDALS AND HONORS
(High School, Business and Elementary Dept.)

"Sophomore Waltzes" ..... *Baker*

AWARDING OF MEDALS AND HONORS
(Collegiate Department)

Xylophone Solo—"Sorgenloss" ..... *Ochs*
Mr. Walter Schaefer and Orchestra

Presentation of Diplomas

CONFERRING OF DEGREES

March—"St. Mary College" ..... *Lurz*
Audience and Orchestra

Valedictory ..... *Carl J. Ryan*

March—"Homeward Bound" ..... *Finelli*
Music by S. M. C. Orchestra

GRADUATES OF 1916

COLLEGIATE DEPARTMENT

COLLEGE OF ARTS AND LETTERS

GERALD E. DUNNE
JOSEPH W. EVANS
FRANCIS J. GARRITY
WILLIAM J. KILLORAN
JOHN L. OBERLANDER
ADOLPH H. ROMER
CARL J. RYAN
WILLIAM O. SCHLEINITZ
RAPHAEL A. SOURD

COLLEGE OF ENGINEERING

RALPH J. WIRSHING
ARTHUR C. ZIMMERMAN

HIGH SCHOOL DEPARTMENT

ALBERT ADELBERG
MARK ALSTON
WALTER ARCHER
WILLIAM BOESCH
GEORGE BOTSCHEN
WILLIAM BRENNAN
MATTHEW CAHILL
EVRARD CALUWAERT
ROBERT CARTON
DANIEL COLLINS
WILLIAM CONWAY
CLARENCE DEGER
EDWARD DUFFY
JAMES DWYER
ROBERT ECKENRODE
LOUIS FAVRET
JOSEPH FINAN
VINCENT FOCKE
CLARENCE GOLDCAMP
JOHN HANNAHAN
EDWARD HAPPENSACK
CLEMENT HARTSHORN
CARROLL HOCHWALT
GEORGE HOCHWALT
EMIL KESSLER
JOSEPH KIENHOEFER
RAYMOND KIRCHDORFER
EDWARD KUNTZ
FRANK LAFFEY
JOSEPH LEONARD
WILLIAM LEPOTSKEY
FRANCIS LIGDAY
FRANCIS McCARTHY
WILLIAM NUSHAWG
CLARENCE NUGENT
VICTOR PAULY
PAUL STALEY
EDWIN TREIBER
WILLIAM UNDERWOOD
CLIFFORD WEIS
WILBUR YACKLEY

BUSINESS DEPARTMENT

WILLIAM CARLTON
HARRY HACKMAN
ROBERT HICKEY
WILLIAM HICKEY
RICHARD KIRK
NICHOLAS LAST
JOHN LEDGER
ROGER MARSHALL
JOHN MASSING
JAMES SLATTERY
THOMAS SUNSHINE
JOSEPH UNGER

DEGREES

A Degree of Bachelor in Chemical Engineering
with the mention of "Magna cum laude,"
Awarded to
RALPH J. WIRSHING, OF DAYTON, OHIO

A Degree of Bachelor in Chemical Engineering
with the mention of "Summa cum laude,"
Awarded to
ARTHUR C. ZIMMERMAN, OF DAYTON, OHIO

The Degree of Bachelor of Arts
with the mention of "Magna cum laude,"
Awarded to
JOSEPH W. EVANS, OF FAYETTEVILLE, OHIO

The Degree of Bachelor of Arts
with the mention of "Cum laude,"
Awarded to
GERALD E. DUNNE, OF LIMA, OHIO

The Degree of Bachelor of Arts
with the mention of "Cum laude,"
Awarded to
FRANCIS J. GARRITY, OF SPRINGFIELD, OHIO

The Degree of Bachelor of Arts
with the mention of "Cum laude,"
Awarded to
WILLIAM J. KILLORAN, OF LIMA, OHIO

The Degree of Bachelor of Arts
with the mention of "Cum laude,"
Awarded to
JOHN OBERLANDER, OF WOODLAWN, PA.

The Degree of Bachelor of Arts
with the mention of "Cum laude,"
Awarded to
ADOLPH ROMER, OF ST. HENRY, OHIO

The Degree of Bachelor of Arts
with the mention of "Cum laude,"
Awarded to
CARL J. RYAN, OF DAYTON, OHIO

The Degree of Bachelor of Arts
with the mention of "Cum laude,"
Awarded to
WILLIAM SCHLEINITZ, OF DAYTON, OHIO

The Degree of Bachelor of Arts
with the mention of "Summa cum laude,"
Awarded to
RAPHAEL SOURD, OF FAYETTEVILLE, OHIO

GOLD MEDALS

The Harry C. Busch Excellence Prize of $20 in Gold for Latin, Greek, English and History Studies Pursued During the Entire Collegiate Course,

Awarded to

RAPHAEL A. SOURD, FAYETTEVILLE, OHIO

The Rev. Joseph F. Kelly Theodicy Medal

Awarded to

RAPHAEL A. SOURD, FAYETTEVILLE, OHIO

Gold Medals for Excellence in Conduct During Their Entire College Career

Awarded to the following Resident Students:

GERALD E. DUNNE, LIMA, OHIO
JOSEPH W. EVANS, FAYETTEVILLE, OHIO
FRANCIS J. GARRITY, SPRINGFIELD, OHIO
WILLIAM J. KILLORAN, LIMA, OHIO
JOHN L. OBERLANDER, WOODLAWN, PA.
ADOLPH H. ROMER, ST. HENRY, OHIO
RAPHAEL A. SOURD, FAYETTEVILLE, OHIO

The Rev. Charles Polichek Medal for Excellence in History, in the Arts Classes

Awarded to

RAPHAEL A. SOURD, FAYETTEVILLE, OHIO

The Gold Medal for Excellence in Christian Doctrine, in the Collegiate Classes,

Donated by William H. Holters, of Covington, Ky.,

Awarded to

GEORGE KINSTLE, DAYTON, OHIO

The Rev. Bernard J. Kuhlman, D. D., Prize of $5 in Gold for American History

Awarded to

J. DEAN McFARLAND, MARION, OHIO

The John C. Shea Sociology Prize of $15 in Gold, in Memory of His Mother, Catherine Shea,

Awarded to

LAWRENCE WEBER, KENDALLVILLE, IND.

The John C. Shea Sociology Prize of $5 in Gold

Awarded to

WILLIS T. LYNCH, GENEVA, NEW YORK

The John C. Shea Sociology Prize of $5 in Gold

Awarded to

CARL J. RYAN, DAYTON, OHIO

The Dr. D. G. Reilly Oratory Prize of $30 in Gold
Awarded to
J. DEAN McFARLAND, MARION, OHIO

The Dr. D. G. Reilly Oratory Prize of $20 in Gold
Awarded to
CARL J. RYAN, DAYTON, OHIO

The Dr. D. G. Reilly Oratory Prize of $10 in Gold
Awarded to
JOSEPH W. HOLTERS, COVINGTON, KY.

The Alumni Diamond Medal for Excellence in Literary Studies and in Contributing Articles to The Exponent, the Official College Magazine,
Awarded to
CARL J. RYAN, DAYTON, OHIO

SENIOR CHEMICAL ENGINEERING

The Rev. Charles Polichek Prize of $20 in Gold for General Excellence in the Senior Chemical Engineering Class
Awarded to
ARTHUR ZIMMERMAN, DAYTON, OHIO

SENIOR ARTS AND LETTERS

The Rev. Charles Polichek Philosophy Prize of $20 in Gold
Awarded to
RAPHAEL SOURD, FAYETTEVILLE, OHIO

The Rev. Charles Polichek Philosophy Prize of $10 in Gold
Awarded to
JOSEPH W. EVANS, FAYETTEVILLE, OHIO

JUNIOR ELECTRICAL ENGINEERING

The Rev. Charles Polichek Prize of $10 in Gold for General Excellence in the Junior Engineering Class
Awarded to
ALBERT KRUSLING, CINCINNATI, OHIO

JUNIOR CHEMICAL ENGINEERING

The Rev. Charles Polichek Prize of $10 in Gold for General Excellence in the Junior Engineering Class
Awarded to
JOSEPH WINDBIEL, CHICAGO, ILLINOIS

SOPHOMORE ARTS AND LETTERS

The Gold Medal for Excellence in Latin Studies in the Sophomore Arts and Letters Class, Donated by Rev. Daniel A. Buckley, of Springfield, Ohio,
Awarded to
LAWRENCE MONTANUS, SIDNEY, OHIO

SOPHOMORE ENGINEERING

The Thomas J. Coughlin Gold Medal for Excellence in Mathematics and Physics in the Sophomore Engineering Class

Awarded to

JOHN CROWLEY, DAYTON, OHIO

FRESHMAN ARTS AND LETTERS

The Gold Medal in Memory of George A. Pflaum for Excellence in English Studies in the Freshman Arts and Letters Class

Awarded to

DEAN McFARLAND, MARION, OHIO

FRESHMAN ENGINEERING

Gold Medal for Excellence in Chemistry and Mathematical Studies

Awarded to

JOHN J. HEIER, DAYTON, OHIO

HIGH SCHOOL DEPARTMENT

HIGH SCHOOL MEDALS

The Rev. Otto B. Auer Elocution Prize of $15 in Gold

Awarded to

JOSEPH LEONARD, LIMA, OHIO

The Rev. Otto B. Auer Elocution Prize of $10 in Gold

Awarded to

EDWARD HAPPENSACK, CINCINNATI, OHIO

The Rev. Otto B. Auer Elocution Prize of $5 in Gold

Awarded to

DANIEL COLLINS, PIQUA, OHIO

The Rev. Bernard J. Kuhlman, D. D., Prize of $10 in Gold for American History

Awarded to

GEORGE BOTSCHEN, CHICAGO, ILLINOIS

The Ancient Order of Hibernians Medal for Excellence in Irish History

Awarded to

FRANCIS FARLEY, DAYTON, OHIO

The Ladies' Auxiliary of the Ancient Order of Hibernians Medal

Awarded to

WALTER GROTE, CINCINNATI, OHIO

The Rudolph Wurlitzer Medal for Excellence in Cornet
Awarded to
THOMAS SUNSHINE, RUSHSYLVANIA, OHIO

The Medal for Elocution in the High School Department
Awarded to
JOSEPH GILVARY, DAYTON, OHIO

The Chicago Alumni Athletic Medal
Awarded to
CLARENCE NUGENT, TOLEDO, OHIO

The Gold Medal for General Excellence in the Fourth High
Awarded to
EMIL H. KESSLER, DAYTON, OHIO
WILLIAM J. BOESCH, DAYTON, OHIO

The Gold Medal for General Excellence in the Third High-A Class
Awarded to
HENRY WEINERT, DAYTON, OHIO

The Gold Medal for Excellence in Third High-B Class
Awarded to
THOMAS CARROLL, COLUMBUS, OHIO

The Gold Medal for General Excellence in the Second High-A Class
Awarded to
HERBERT ABEL, DAYTON, OHIO

The Gold Medal for General Excellence in the Second High-B Class
Awarded to
FRANK ELARDO, DAYTON, OHIO

The Gold Medal for General Excellence in the First High-A Class
Awarded to
LAWRENCE MENNINGER, CINCINNATI, OHIO

The Gold Medal in First High-B Class
Awarded to
JOHN DUELL, DAYTON, OHIO

The Gold Medal for General Excellence in First High-C Class
Awarded to
ALFRED POLIQUIN, DAYTON, OHIO

BUSINESS DEPARTMENT

The Gold Medal for Excellence in the Second Business Class
Awarded to
THOMAS N. SUNSHINE, RUSHSYLVANIA, OHIO

The Gold Medal for General Excellence in the First Business Class
Awarded to
JAMES L. FLETCHER, XENIA, OHIO

COLLEGE OF ARTS, LETTERS AND SCIENCE

The College of Arts, Letters and Science purposes to offer to the student the time and opportunity to further cultivate and to bring to maturity the qualities of mind and heart and will that have been nourished to great extent in the Preparatory or High School Department. To attain this end a greater latitude is permitted in the selection of studies, which are divided into three groups, leading to the degrees Bachelor of Arts, Bachelor of Letters, and Bachelor of Science. The selection of studies is made with the advice of and in consultation with members of the faculty designated for this purpose, and with the approval of the Prefect of Studies. Christian Doctrine, Philosophy, and English are considered fundamental studies for the three degrees. Latin and Greek are characteristic studies for students wishing to obtain the degree of Bachelor of Arts. Latin, History and Modern Languages are characteristic studies for candidates aspiring to the degree of Bachelor of Letters.

Candidates desiring a course in General Science with a view of preparing for teaching the same, may arrange for a course with the faculty. An extensive study of mathematics will form an essential feature. Upon the successful completion of the course, the degree of Bachelor of Science will be awarded.

REQUIREMENTS OF ADMISSION to the COLLEGE OF ARTS, LETTERS AND SCIENCE

Candidates for admission to the College of Arts, Letters and Science must be sixteen years old. They must give evidence of having completed satisfactorily an amount of preparatory work equal to sixteen units. By a unit is meant a subject pursued throughout the year comprising four or five recitations per week. Studies pursued for half a year entitle to half a unit.

In the case of graduates of a preparatory school or high school having a four-years' course, the diploma of graduation may be accepted in lieu of an examination of admission.

In the latter case blanks of admission will be supplied by St. Mary College, which must be filled out and signed by the proper authority of the preparatory school or high school.

The subjects of the sixteen units required for admission are arranged in two groups.

GROUP I.	REQUIRED SUBJECTS	11 UNITS
Geometry	Plane	1 unit
Algebra	To Quadratics	1 unit
English	Composition and Rhetoric	2 units
Latin	Grammar, Version, Composition	4 units
Languages	Greek or French or German	2 units
History	Ancient and Modern	1 unit
Sciences	Physical or Natural	1 unit

GROUP II.	REQUIRED SUBJECTS	5 UNITS
Algebra	Through Quadratics	½ unit
Geometry	Solid	½ unit
Latin	Advanced	1 to 4 units
German	Advanced	1 to 4 units
Greek	Elementary	1 to 3 units
Trigonometry	Plane	½ unit
History	American, Civcis	1 unit
Astronomy	Descriptive	½ unit
Descriptive		½ unit
Freehand Drawing		½ unit
Mechanical Drawing		½ unit
Botany, oZology, Physiology, Physiography, each		½ unit

COLLEGE OF ARTS AND LETTERS

Faculty

Rev. Bernard P. O'Reilly, S. M.
President

Rev. Joseph A. Tetzlaff, S. M.
Vice-President
Latin, History

Rev. Aloys Schratz, S. M.
Philosophy, Latin

Bro. Adam Hofmann, S. M.
Higher Mathematics

Bro. William Wohlleben, S. M.
Chemistry

Bro. Ulrich Rappel, S. M.
Physical Science

Bro. Francis O'Reilly, S. M.
English

Rev. Francis Kunnecke, S. M.
Religion, Latin, Greek

Bro. William Beck, S. M.
Natural Sciences

Rev. Clement Wulf, S. M.
Greek

Bro. Edward Knust, S. M.
Higher Mathematics, French

Bro. George L. Ley, S. M.
Bro. William Dapper, S. M.
Bro. Thomas Poitras, S. M.
French

Bro. John Gareis, S. M.
Bro. Theodore Pluemer, S. M.
Librarians

Francis E. Canny, B.A., LL.B.
Elementary Law

Carl Mettler
Physical Instructor

Studies Prescribed for the Degree of Bachelor of Arts

FRESHMAN YEAR

First Term

	Periods
Religion (20)	2
English (50 a, b, c)	4
History (80)	2
Latin (30)	7
Greek (40)	6

Second Term

	Periods
Religion (20)	2
English (51 a, b, c)	4
History (81)	2
Latin (31)	7
Greek (41)	6

SOPHOMORE YEAR

First Term

	Periods
Religion (22)	2
English (52 a, b, c)	4
History (82)	2
Latin (32)	7
Greek (42)	6
Logic (25)	2

Second Term

	Periods
Religion (22)	2
English (53 a, b, c)	4
History (83)	2
Latin (33)	7
Greek (43)	6
Logic (25)	2

JUNIOR YEAR

First Term

	Periods
Religion (23)	2
Psychology (26)	6
English (54 a, b, c)	4
Latin (34)	7
Greek (44)	6
History (84)	2

Second Term

	Periods
Religion (23)	2
Psychology (26)	6
English (55 a, b, c)	4
Latin (35)	7
Greek (45)	6
History (85)	2

SENIOR YEAR

First Term

	Periods
Theodicy (24)	2
Metaphysics (27)	6
Ethics (28)	1
English (56 a, b)	4
Latin (36)	7
Greek (46)	6

Second Term

	Periods
Theodicy (24)	2
Hist. of Phil. (29)	6
Ethics (28)	1
English (57 a, b)	4
Latin (37)	7
Greek (46)	6

Studies Prescribed for Degree of Bachelor of Letters

FRESHMAN YEAR

First Term

	Periods
Religion (20)	2
English (52 a, b, c)	4
History (80)	2
Latin (30)	7
French (70)	3
German (60)	2

Second Term

	Periods
Religion (20)	2
English (51 a, b, c)	4
History (81)	2
Latin (31)	7
French (71)	3
German (61)	2

SOPHOMORE YEAR

First Term

	Periods
Religion (22)	2
English (52 a, b, c)	4
History (81)	2
Latin (32)	7
French (72)	3
German (62)	2
Logic (25)	2

Second Term

	Periods
Religion (22)	2
English (53 a, b, c)	4
History (83)	2
Latin (33)	7
French (73)	3
German (63)	2
Logic (25)	2

JUNIOR YEAR

First Term

	Periods
Religion (23)	2
English (54 a, b, c)	4
Psychology (26)	6
Latin (34)	7
French (74)	3
German (64)	2
History (84)	2

Second Term

	Periods
Religion (23)	2
English (55 a, b, c)	4
Psychology (26)	6
Latin (35)	7
French (75)	3
German (65)	2
History (85)	2

SENIOR YEAR

First Term

	Periods
Religion (24)	2
English (65 a, b)	4
Ethics (28)	1
Metaphysics (27)	6
Latin (36)	7
French (76)	3
German (66)	2

Second Term

	Periods
Religion (24)	2
English (57 a, b)	4
Ethics (28)	1
Philosophy (29) History	6
Latin (37)	7
French (76)	3
German (66)	2

SUBJECTS OF INSTRUCTION

THE COLLEGE OF ARTS AND LETTERS

Moral

Freshman Year. Two Periods a Week.

20. Nature and Distinction of Laws; Conscience; Sin; Virtue; Precepts of the Decalogue; Forms of Worship; Oaths and Vows; Obligation of Hearing Mass; Suicide; Murder; Scandal; Dueling; Duty and Right; Violation of Rights; Restitution; Contracts; Fraud; Lying; Detraction; Calumny; Violation of the Secret; Commandments of the Church; Fasting and Abstinence; Laws of Marriage; Christian Perfection; Evangelical Counsels; States of Life; Vocation. The Sacraments: Confession, Holy Communion, Holy Orders, Matrimony. Feasts, Ceremonies and Religious Practices of the Church.

Dogma

Sophomore Year. Two Periods a Week.

22. The Holy Religion; God, His Essence and Attributes; Blessed Trinity; Creation of the World; the Angels; Man; Original Sin; the Incarnation; Jesus Christ in Prophecy, on Earth, in Glory; the Work of Jesus Christ; Grace; Merit; Essence and Existence of the Sacraments, Effects and Efficacy of the Sacraments; Indulgences; Virtue; Four Last Things.

Christian Apologetics

Junior Year. Two Periods a Week.

23. 1. Religion, Revelation, Function of Reason in matters of Faith.

2. Historical value of the Sacred Scriptures. The Pentateuch; the Pentateuch and Science—Geology, Astronomy, Biology, Paleontology. The Bible and modern discoveries in Egypt, Assyria, and Chaldea. Historical value of the Gospels.

3. Demonstration of the Divinity of the Christian religion. Miracles and Prophecies, Phenomenon of Hypnotism. Ten proofs of the Divinity of the mission of Jesus Christ and His work, the establishment of the Christian Religion. Christianity and Buddhism, Christian Science and Faith Cure. Truth of the Catholic Religion. (1) The Roman Catholic Church possesses the four positive marks of the true Church. Protestantism. The Original Schismatic Church. Prerogatives conferred by Jesus Christ upon the Church. (2) Accusations brought against the Church. Intolerance; the Vicious Circle; the Inquisition; Galileo; Massacres of St. Bartholomew; Crusades; Wars of Religion; Revocation of the Edict of Nantes; Temporal Power of the Popes; Authority of the Popes in the Middle Ages; Bad Popes; the Church and Civilization.

Rational Theology

Senior Year. Two Periods a Week.

24. 1. Definition and scope. Relations to Dogmatic Theology. The Existence of God. Necessity of demonstrating the existence of God. Demonstration; arguments from motion, contingency, casuality, axiomatic truths, duty, moral sanctions, relativity, design, ontological argument. Atheism; Idealistic Atheism, Materialistic Atheism, Practical Atheism, Religious and Moral Consequences of Atheism.

2. Nature and attributes of God; Manner of Determining the Attributes of God; the Essence of God, and His metaphysical attributes, simplicity, perfection; idea of the infinite; immutability, eternity, unity, omnipresence. Moral attributes of God or the divine personality; God's knowledge; divine knowledge and human knowledge; divine knowledge and human liberty; divine will. Pantheism among the ancients, in the Middle Ages. Modern Pantheists, Spinoza's theory of substance, Fichte, Shelling, Hegel, Anthropomorphism.

3. Creation and Evolution: Creation according to St. Thomas; evolution according to the Fathers; evolution and the Bible.

PHILOSOPHY

Sophomore Year. Logic. Two Periods a Week.

25. General Introduction; Object of Logic; Division of Logic; Plan of Logic.

Formal Logic: On Concepts and Terms; The Proposition; The Syllogism.

Applied Logic or Methodology: On Method in General; Demonstration; Mathematical Demonstration; Method of the Physical Sciences; Method of the Natural Sciences; Method of the Moral Sciences; Errors and Sophisms; Truth and Science; The Principal Scientific Hypotheses.

Junior Year. Psychology. Six Periods a Week.

26. Object of Psychology: The Facts of Consciousness; The Faculties of the Soul; the Soul; Method of Experimental Psychology.

Treatise on Sensibility: Sense Perception; Consciousness of Sensation; Pleasure and Pain; the Mental Image; the Memory; Association of Ideas; Instinct; Appetency and Passion; the Motor Faculty.

Treatise on the Intellect: Attention; Abstraction; Generalization; Conception; Judgment; Reasoning; First Principles.

Treatise on the Will: Nature of the Will; Moral Liberty; Determinism.

Senior Year. Metaphysics. Six Periods a Week.

27. General Introduction; Nature of the Subject; Certitude of Metaphysical Inquiry; The Method of Metaphysics.

TREATISE ON ONTHOLOGY: Nature of Being; Attributes of Being; the True; The Beautiful; Art; The Esthetic Faculties; The Good.

TREATISE ON COSMOLOGY: The Existence of Eternal Reality; Matter; Motion; Life.

TREATISE ON RATIONAL PSYCHOLOGY: Nature o the Soul; The Union of the Body and Soul; The Soul Separated from the Body.

TREATISE ON THEODICY: The Existence of God; Nature and Attributes of God; Pantheism; Creation and Evolution.

Ethics.

28. A General View of the Science of Ethics. Conscience; Good and Duty; Merit; Responsibility and Sanction; Individual Ethics; Domestic Ethics; Social Ethics; Religious Ethics; Ethics and Political Economy.

29. General Introduction; Science according to Aristotle; Science according to Bacon; Science according to Comte: Definition of Philosophy; Oriental Philosophy; Greek Philosophy before Socrates; Plato, Aristotle; Philosophy of Rome; Scholastic Philosophy; Philosophy during the Renaissance; Bacon; Descartes, Malebranche, Spinoza, Leibnitz, Locke, Berkeley, Hume, Reid, Condillac, Kant; Contemporaneous Philosophy, Neo-Scholastic Philosophy.

LATIN

Freshman Year. Six Periods a Week.

30. Ciero, Pro Marcello; Livy, Book IX; Vergil, Georgics; Horace, Odes.

Latin versification two hours a week. Latin composition, two hours a week.

31. Cicero, De Imperio; Livy, Book I and XXI; Horace, Select Odes.

Sight Reading, New Testament. Latin versification two hours a week. Latin composition, two hours a week. Aids to Latin Prose Composition, J. A. Kleist, S. J. Latin Literature.

Sophomore Year. Six Periods a Week.

32. Horace, Ars Poetica; Tacitus, Agricola.

Latin composition, two hours a week.

Latin versification, twice a month.

33. Tacitus, Annals; Horace, Epistles and Satires. Bimonthly exercise in Latin versification. Latin composition, two hours a week. Aids to Latin Prose Composition, J. A. Kleist, S. J.

Junior Year. Seven Periods a Week.

Pliny, Letters; Juvenal, Satires; Seneca, Essays.

Latin Literature, Augustan writers and writers of the subsequent epochs.

35. Cicero, De Officiis; Plautus, Captivi; Selections from the Fathers.

Comparative study of Greek and Latin Literatures. Weekly exercise in Latin composition and translation. Bimonthly exercise in Latin versification.

Latin conversation is a feature in all the classes.

Senior Year. Seven Periods a Week.

36. Terence, Andria; Quintilian, Books X and XII. Weekly exercises in Latin composition and translation. Bimonthly exercises in Latin versification.

37. Cicero, Quaestiones Tusculanae; Seneca, Three Tragedies. Weekly exercises, as above.

GREEK

Freshman Year. Six Periods a Week.

40. Grammar (White): Inflection; declension; conjugation of paideuo. Translation and themes. New Testament (N. J. Stoffel, C. S. C.)

41. Grammar: From the conjugation of paideuo to end of inflections. Versions and themes.

Aesop, Fables. Greek Literature.

Sophomore Year. Six Periods a Week.

42. Inflections reviewed. Syntax of articles, noun, pronoun. Translation exercises based on the authors. Greek Literature.

Xenophon, Anabasis; Lucian, Dialogues; Herodotus, Extracts.

43. Grammar; Syntax to end. Translation exercises based on the authors.

Aeschylus, Agamemnon, or Persae, or Prometheus Vinctus; St. John Chrysostom, Eutropius; Homer, Iliad, Book I.

Junior Year. Five Periods a Week.

44. Grammar: Review of entire Syntax. Translation and composition based on the authors.

Sophocles, Oedipus Rex; Philoctetes; Plato, Apology; Homer, Odyssey, Book I.

45. Euripedes, Iphigenia in Aulis, or Medea, or Alcestis; Demosthenes, Philippics or De Corona; Aristophanes, Birds.

Senior Year. Five Periods a Week.

46. Plutarch; Lives; Plato, Phaedo. Lyrics from Greek poets; Sappho, Pindar.

ENGLISH

Freshman Year. Four Periods a Week.

50a. *Literary Criticism.*

Sentence; Paragraph; Complete Composition; Sublimity; Beauty; Wit and Humor; Melody; Personality in Literary Art.

The Letter of Friendship; News Letter; Open Letter; History of the Letter; The Letter in Hebrew, Greek, and Latin Literature.

Letters of Cicero, Pliny, Lord Chesterfield, Pascal, Newman.

b. *Oratory and Forensics.*

Qualities; Plan; Appeal to Passions; Argument; Style; Modern Influences; History of Oratory; Representative Oratory.

Public Speaking; Debating; Extempore Speaking; Principles of Argumentation.

For Reference: Depew, Library of Oratory; Bautain, Art of Speaking; Raymond, Orator's Manual; Coppens, Oratorical Composition; Shurter, Public Speaking.

c. *English Classics.*

As You Like It; Speeches of Burke, O'Connell, Webster, Cicero, Demosthenes.

51a. *Literary Criticism.*

The ESSAY: Modern Use; Tracts and Pamphlets; Editorials; Representative Essayists—Plutarch, Xenophon, Cicero, Pliny, Bacon, Addison, Macaulay, Matthew Arnold.

BIOGRAPHY: Sources of Biography; Kinds—Obituary, Eulogy, Diatribe, Philippic, Critique, Private Papers, Private Journal, Memoirs, Letters. Representative Biographers—Boswell, Morley, Plutarch, Southey.

HISTORY: Historical Interpretation; Prejudice; Modern Scientific Method.

Noted Historians—Guizot, Hume, Macaulay, Hallam, Linguard, Prescott, Bancroft.

POETRY: Elements of Versification; The Epic, Lyric, Pastoral, Ode, Sonnet. Characteristics of authors and general poetic values.

b. *English Literature.*

THE FORMATIVE PERIOD.

1. The Anglo Saxon or Old English Period.
   Beowulf; the Seafarer; Our First Speech; Bede, Caedmon; Alfred.
2. The Anglo Norman Period.
   The Norman Conquest; Literary Ideals of the Normans; Geoffrey of Monmouth; Layamont.

3. The Age of Chaucer.
Langland; Wickliffe; Mandeville; Wyatt; Surrey; Mallory.

For Reference: cf 53a.

c. *English Classics.*

Richard III; The Tempest; Canterbury Tales; Bacon, Emerson, Spalding, Azarias, Essays; De Coverly Papers.

Sophomore Year. Four Periods a Week.

52a. *English Literature.*

THE ELIZABETHAN PERIOD.

Character of the Elizabethan Age.

The Non-Dramatic Poets—Spencer, Sackville, Sydney, Drayton.

Brief Study of the Drama; Shakespeare's Predecessor, Marlowe; Shakespeare himself; His Contemporaries and Successors—Ben Johnson, Beaumont and Fletcher; Webster, Middleton, Haywood, Massinger.

Prose Writers: Bacon, Hooker, Raleigh.

THE MODERN PERIOD.

1. The Puritan Age.
Literary Characteristics.
Metaphysical Poets: Hubert, Herrick, Milton.
Prose Writers: Bunyan, Taylor, Walton.
2. The Period of Restoration.
Literary Characteristics.
Authors: Dryden, Butler.

For Reference: cf 53a.

b. *The Short Story.*

The Rise and Place of the Short Story; Nature and Kinds of the Short Story.

Structure of the Short Story; Theme, Material, Plot, Plot Development, Opening of the Story, Setting and Body of the Story.

For Reference: cf 53b.

c. *English Classics.*

Hamlet, King Lear; Spencer, Faerie Queene; Milton, Paradise Lost, Lycidas.

53a. *English Literature.*

THE MODERN PERIOD.

1. The Age of Classicism.
Literary Characteristics.
Authors: Pope, Swift, Addison, Johnson, Burke.
The Revival of Romantic Poetry: Gray, Goldsmith, Cowper, Burns.

The First English Novelists: Defoe, Richardson, Fielding, Smollett.

2. The Age of Romanticism.
   Literary Characteristics.
   Poets: Wordsworth, Coleridge, Southey, Scott, Byron, Shelley, Keats.
   Prose Writers: Lamb, De Quincy, Austen, Landor.

3. The Victorian Age.
   Literary Characteristics.
   Poets: Tennyson, Browning, Morris, Swinburne.
   Novelists: Dickens, Thackeray, Eliot, Bulwer Lytton, Blackmore, Meredith, Stevenson.
   Essayists: Macaulay, Carlyle, Ruskin, Matthew Arnold, Newman.
   The Spirit of Modern Literature.
   The Catholic Revival.

For Reference: Garnett and Goss, Illustrated History of English Literature; Jusserand, Literary History of the English People; Saintsbury, Histroy of Eliabethan Literature; Stedman, Victorian Poets; Hazlitt, Lecture on the English Poets; Dowden, Studies in Literature; Minto, Characteristics of English Poets; Courthope, History of English Poetry; Lowell, Literary Essays; Palgrave, Golden Treasury; Jenkin's Literature; Brooke, Early English Literature; Crawshaw, The Making of English Literature.

b. *The Short Story.*

Structure (cont.)—Characters, dialogue, title, style, special characters.

Preparation for Authorship—Originality, talent, acquiring of vocabulary, the study of the short story.

The Manuscript and its Market—Writing the Story, Selling the Story.

For Reference: Brander Matthews, The Short Story, the Philosophy of the Short Story.

c. *English Classics.*

Pope, The Rape of the Lock; Milton, Ode on Immortality; Wodsworth, Keats, Shelley, and Browning.

Poems; Tennyson, The Princess, The Idylls of the King.

Junior Year. Four Periods a Week.

54a. *American Literature.*

THE PERIOD OF BEGINNINGS (1608-1809).

The Colonial Writers: Smith, Mather, Edwards.

The Revolutionary Writers: Henry, Jefferson, Hamilton, Frenau, Franklin.

THE PERIOD OF ACHIEVEMENT (1809-1870).

The Knickerbocker School: Irving, Cooper, Bryant.

The New England Group—Poets and Essayists: Emerson, Longfellow, Whittier, Lowell, Holmes, Thoreau.

For Reference: cf 55a.

b. *Study of the Novel.*

Origin of the Novel: Elements, Egyptian Tales, Greek Romances, Mediaeval Conglomerates, The Modern Novel.

For Reference: cf 55b.

c. *English Classics.*

Newman, Idea of a University; Scott, Quentin Durward; Thackeray, Henry Esmond; Dickens, Pickwick Papers; Lowell, Among My Books; Holmes, Poems; Emerson, Essays.

55a. *American Literature.*

THE PERIOD OF ACHIEVEMENT (CONT.)

The New England Group—Orators, Novelists, Historians: Webster, Hawthorne, Stowe, Bancroft, Prescott, Parkman, Motley.

Early Southern Writers: Simms, Poe, Hayne, Timrod.

Writers of the Middle States: Taylor, Whitman, Stoddard, Curtis.

THE PRESENT PERIOD (1870-1910).

New England since 1870: Stedman, Aldrich, Hale, Warner, Fiske.

The New South: Lanier, Cable, Harrison, Page, Allen.

Recent Writers of the Middle States: Burroughs, Howells, James, Crawford, Stockton.

The Rise of Western Literature: Harte, Clemens, Eggleston, Field, Riley.

For Reference: Stedman and Hutchinson, Library of American Literature; Johnson, Histroy of American Literature; Underwood, American Literature; Heydrick, Literature; Page, Chief American Poets; Trent and Wells, Colonial Prose and Poetry; Stedman, An American Anthology; Brownell, American Prose Masters.

b. *Study of the Novel.*

Development of the Modern Novel: Plot; Motive and Verisimilitude; Character; Background; Style.

For Reference: Horne, The Technique of the Novel; Hamilton, Materials and Methods of Fiction; Stevenson, A Gossip on Romance; Stoddard, A Study of the Novel; Saintsbury, The Historical Novel; Brander Matthews, Aspects of Fiction, The Historical Novel; Perry, A Study of Prose Fiction; Whitcomb, The Study of a Novel; Jack, Essays on the Novel; Dawson, Makers of English Fiction; Phelps, Essays on Modern Novelists.

c. *English Classics.*

Stedman, Poems; Bulwer Lytton, Last Days of Pompeii; Jane Porter, Scottish Chiefs; Othello; Reading of Modern Novels.

Senior Year. Four Periods a Week.

56a. *The Study of the Drama.*

The Drama—Its Law; Dramatic Unity; Nature and Sources of Tragic Effect; Nature and Sources of Comic Effect.

Its Technique: The Two Types of Drama; Logical Divisions of the Drama; Mechanical Divisions of the Drama; Character-Treatment; Plot in Comedy; Character-Treatment in Comedy.

COMPARATIVE STUDY—THE ANCIENT DRAMA.

For Reference: Moulton, Ancient Classical Dramas; Campbell, Guide to Greek Tragedy; Donaldson, The Theatre of the Greeks; Symmonds, The Greek Poets; Jevons, History of Greek Literature; Quinn, Helladian Vistas.

Roman Tragedy and Comedy: Origin and Development. Famous Authors.

For Reference: Brander Matthews, Development of the Drama; Seller, The Roman Poets of the Republic; Riley, Translation of Terrence and Plautus; Cruiwell, History of Roman Literature.

Miracle and Mystery Plays: Origin and Development.

For Reference. Pollard, Miracle Plays.

French Comedy: Origin and Development.
Author: Moliere.

For Reference: Fortier, Histoire de la Literature Francaise; Translation of Moliere's Works.

THE MODERN DRAMA.

French Tragedy: Origin and Development.
Authors: Corneille, Racine.

For Reference: Baudrillard, The Catholic Church, Renaissance and Protestantism; Fortier, Histoire de la Literature Francaise.

Spanish Drama: Origin and Development.
Authors: Lope de Vega, Calderon.

For Reference: Tichnor, History of Spanish Literature; McCarthy, Dramas of Calderon, Translated.

English Drama: Origin and Development.
Authors: Greene, Lyle, Marlowe, Shakespeare, Beaumont and Fletcher, Ben Johnson, Dryden, Wycherly.

For Reference: Moulton, Shakespeare as a Dramatic Artist; University Edition of Shakespeare's Works; Pollard, English Miracle Plays, Moralities and Interludes.

German Drama: Origin and Development.
Authors: Lessing, Schiller, Goethe.

For Reference: Baumgartner, Life of Goethe; Carlyle, Essays.

The Modern Romantic School. Authors: Rostand, Phillips, Ibsen, Sudermann, etc.

For Reference: Brander Matthews, Development of the Drama.

b. *English Classics.*

Midsummer Night's Dream, Twelfth Night; Azarias, The Philosophy of Literature. Reading from Sophocles, Aristophanes, Terence, Plautus, Moliere, Corneille, Racine.

57a. *The Study of Foreign Literature.*

The Italian Renaissance: Age of Dante; Italian Influence on English Literature.

The Age of Classicism: French Influence on English Literature.

Comparative Study of Modern Literatures: English, French, German, Spanish, Italian.

For Reference: Botta, Handbook of Universal Literature; Wright, Masterpieces of Greek Literature; Dean Church, Essay on Dante; Ozanam, Dante and the Philosophy of the XIII Century; Ruskin's Works; Lowell's Essays, Vol. IV; Kelly, History and Criticism of Spanish Literature; Scherer, History of German Literature; Baumgartner, Weltliteratur.

b. *English Classics.*

Dante, Inferno; Lope de Vega, Star of Seville, Calderon, Secret in Words; Marlowe, Edward II., Faustus; Schiller, Mary Stuart; Goethe, Faust; Rostand, Cyrano de Bergerac, Chantecler.

GERMAN

Freshman Year. Three Periods a Week.

60. Advanced study of German Grammar. German Literature: I. and II. Periods, with selections from the authors of these periods. Lectures on German Epic and Lyric Poetry, with their representative writers.

61. German Conversation. German Literature: III., IV., and V. Periods, with selections from the authors of these periods. Detailed study of the Life and Works of Klopstock and of Wieland.

Selections to be made from the following: Klopstock's *Odes, Oberon, Nathan the Wise, Minna von Barnhelm, Die Braut von Messina.*

Sophomore Year. Three Periods a Week.

62. Translation from English into German. German Literature. VI. Periods, with selections from the authors of this period. Lectures on German Drama, with its representative writers.

63. German Composition and Conversation. German Literature VI. Period, with selections from the authors of this period. Detailed study of the Life and Works of Schiller and of Lessing. First and Second Semesters.

Selections to be made from the following: *Wallenstein* (three parts), *Maria Stuart, Emilia Galotti, Faust.*

Junior Year. Three Periods a Week.

64. Scientific German, and German Conversation. German Literature: VII. Period, with selections from the authors of this period. Lectures on German Prose (Historical, Critical, Philosophical, Oratorical, Romantic), with its representative writers.

65. Original Essays in German and German Conversation. German Literature: VII. Period with selections from the authors of this period. Detailed study of the Life and Works of Goethe and of Herder.

Selections to be made from the following: *Goetz von Berlichingen, Wilhelm Meister's Lehrjahre, Iphigenie in Tauris, Die Italienische Reise, Blaetter von Deutscher Art und Kunst. Selections from the Thirty Years' War.*

Senior Year. Two Periods a Week.

66. German Philosophical Works.

FRENCH

Freshman Year. Three Periods a Week.

70. Elementary Grammar, Pronunciation, written exercises.

Based on Syms' First Year French.

71. Continuation of work done during the First Semester; reading of simple French short stories; study of simple memory selections; conversation.

Based on Syms' Second Year French.

Collateral eading: *Fables Choisies de La Fontaine. Les Plus Jolis Contes des Fees Lazare.*

Sophomore Year. Three Periods a Week.

72. Advanced Grammar; written eexrcises; conversation; continuation of reading and memory selections of the first year.

Based on Syms' Third Year French.

Collateral Reading: Aldrich and Foster's French Reader. *Fleurs de France. Contes de Daudet.*

73. Continuation of the work of the preceding semester. Syms' Third Year French is completed; a general review of French Grammar and exercises in French Composition weekly.

Collateral Reading: *Choix de Contes Contemporains. Contes Choisis* de J. Lemaitre. *Contes Choisis* de Rene Bazin. Plays selected from Labiche and Legouve.

Junior Year. Three Periods a Week.

74. In this course the French Language is exclusively used. French Literature of the X., XII., XIII., XV., and XVI. centuries is insisted upon, but a thorough study of the XVII. century and of the principal authors is made.

Text. Fortier's *Histoire de la Litterature Francaise.*

Special study of Corneille, *Le Cid, Horace, Polyeucte* (only one); Racine, *Athalie, Andromaque, Brittanicus,* (only one); Moliere, *l'Avare, le Misanthrope, le Bourgeois Gentilhomme;* Boileau, *Selections;* Bossuet, *Oraisons Funebres. Sermons; Fenelon, Telemaque.*

75. Continuation of the work started in the preceding semester; special study of the XVIII. and XIX. centuries.

Selections from Voltaire, Rousseau, and others of the XVIII. century.

Special study of Chateaubriand, *Atala, Avantures du Dernier des Abencerges, poems.* La Triade Francaise: Lamartine, Alfred de Musset, and Victor Hugo. H. de Bornier, *La Fille de Roland*; Rostand, *Cyrano de Bergerac* and *l'Aiglon.*

Lectures in French will be given on other authors and the influence on French thought and life.

Senior Year. One Period a Week.

76. Reading of French Philosophers: Pascal, *Pensees;* Descartes, *Discours sur la Methode;* Cousin, *le Vrai, le Beau et le Bien.*

HISTORY

Freshman Year. Two Periods a Week

80. Christianity and the Roman Empire; Origin of the Papal States; Charlemagne; The Papacy and the Empire.

81. Mediaeval Universities; Crusades; Rise of the Western States; Religious Orders; Schism of the West.

Sophomore Year. Two Periods a Week.

82. The Renaissance; Modern Maritime Enterprises; The Great Religious Schism; Thirty Years' War; Anglo-Indian Empire; French Absolutism.

Junior Year. Two Periods a Week.

83. The French Revolution; The Napoleonic Wars; The French Republic; Reform Movement; Unification of Germany and Italy; Kulturkampf in Germany. Eastern Question; Awakening of the Orient; Current Events.

Senior Year. Two Periods a Week.

84. Constitutional History of the United States; Principles and Applications of the Constitution; Duties of an American Citizen.

85. Labor Question; Race Problem; Social Reformers.

ELEMENTARY LAW

Freshman Year. One Hour a Week.

86. The new course of Elementary Law has for its purpose to teach the scope and field of jurisprudence. Law will be shown as a science and as a structure, and classification and explanation of the various departments will be made clear to the classes without treating law technically. The course will be supplemented by lectures on business law.

ART DEPARTMENT

A well-rounded education should embrace a knowledge of art. True art has both an aesthetic and moral value. It uplifts the imagination and refines the sensibilities. It enables us to reproduce that beauty and harmony in our lives. The aim of the art course, therefore, will be to train the eye to see beauty and to train the hand to reproduce it.

Instructions are given in pen, and charcoal drawing, in water color painting, and painting in oils. Studies are made from objects, from casts, and from the human figure. The charming scenery of the Miami Valley affords ample opportunities for outdoor sketching.

A History of Art, in its three main branches of painting, sculpture, and architecture, completes the course. The College has a choice collection of photographic prints of the world's masterpieces, to which the students have access at all times.

MUSIC DEPARTMENT

The Music Department of the College is intended primarily to accommodate those who wish to pursue the study of music for its cultural advantages and as a refined accomplishment. On this idea the programs that follow are based.

Piano

Grade A. Position and playing motions. Finger exercises. Elements of notation. Studies: W. S. B. Mathews' Standard Graded Course, Grade I., or equivalent. Broken chords in major triads. Major scales. Pieces.

Grade B. Studies: W. S. B. Mathews' Standard Graded Course, Grade II. Broken chords in major and minor triads. Major, minor, and chromatic scales. Transposition. Ele-

mentary octave and chord practice. Easy movements from Sonatinas. Pieces. Leading facts in musical biography.

Grade C. Studies. W. S. B. Mathews' Standard Graded Course, Grade III. Broken chords and arpeggios in major and minor triads and in dominant and diminished sevenths. Scales, octaves, and chords. Movements from Sonatinas. Pieces. Elementary notions of harmony.

Grade D. Studies: W. S. B. Mathews' Standard Graded Course, Grade VI. Technic outlined in Grade C in greater speed and covering greater range of keyboard. Major, minor, and chromatic scales in double thirds and sixths. Movements from Sonatas. Pieces. Harmony.

Violin

Grade A. Elementary exercises. Hermann, Bk. I, Part I and II. Goby Eberhardt, Part I. Scales in first position. Bowing exercises. Studies: de Beriot, Wohlfahrt, Schradieck, Dancla, Hohmann, Hofmann, Sevcik, Op. 6; Kayser, Op. 20, Bk. I; pieces by Saenger, Missa, Dancla, and others.

Grade B. Finger and bowing exercises. Hermann, Bk. I, Part III, and Bk. II. Goby Eberhardt, Part II and III. Scales. Kayser, Op. 20, Bk. II, Op. 44, Part. Dont, 24 exercises; Wohlfahrt, Op. 45, I., Part and II.; Op. 54, Part I, Hans Sitt, Op. 32, Part I; Sevcik technical studies; Alard; de Beriot; Blumenstengel scale studies; Mazas; solos by Dancla and others; duets by Dancla, Mazas, Pleyel and others.

Grade C. Bowing exercises. Scales (three octaves). Studies: Dont, Mazas, Sevcik, Sitt, Op. 32, Part II and III, Wohlfahrt, Op. 54, Part II and III; Kreutzer Etudes; Fiorillo Etudes. Halir scale studies; Schradieck, I, II, III. Solos: David, de Beriot, Air Varies, Raff, and others.

Grade D. Scales (in three octaves, in thirds and octaves). Arpeggios; Rode Caprices; Kreutzer and Fiorillo Etudes combined; Campagnoli, seven divertisements. Solos: Wieniawski, Beethoven, Alard, Ries, etc. Concertos: Rode, de Beriot, Viotti, Sonatas by Handel, Mozart, Haydn, etc.

For other instruments similar courses will be arranged, if warranted by the number of applicants.

PHYSICAL TRAINING

Since it is the function of education to train the growing individual into useful and sterling manhood, it is all important that physical education demand attention in any scheme of educational work, since the capacity for usefulness is so largely determined by the physical health of the individual.

In order that these needs may be adequately supplied, a large variety of work—hygienic, corrective, recreative, and competitive—is offered in regularly organized classes under proper guidance of a physical director.

The students of all classes take physical training. One-fourth credit is given yearly to students attaining a satisfactory average in the classes of physical training.

One semester hour is devoted weekly to physical training in the gymnasium or on the campus.

Unless physically unfitted for physical training, the students of all classes shall attend every period of assigned work. Exception to this rule can be made only with the permission of the Vice-President of the College.

A course of lectures will be given by Mr. Carl Mettler during the year on Personal Hygiene and Physiology of bodily exercises.

Required Work.

1. Floorwork: gymnastic and military tactics.
2. Hygienic and corrective work: free exercises with or without hand apparatus.
3. Recreative and competitive work; gymnastic games.
4. Athletic: class work in athletic exercises.

COLLEGE OF ENGINEERING

The College of Engineering, organized September, 1910, is designed to satisfy an oft-repeated desire and to fill a long-felt need. This College is a natural outgrowth of the science courses which have always received considerable attention at St. Mary.

No effort is spared to acquaint the student thoroughly with the fundamental principles and to give him a good insight into the theoretical analysis of engineering problems. While emphasis is laid on fundamental theory, continual attention is paid to the solution of practical problems for the purpose of imbedding principles and illustrating the lines of their general industrial application. At the same time students are trained to habits of initiative and industry, and will thus be well prepared to adapt themselves readily to actual conditions and requirements, and to grapple with new problems that from time to time confront the professional engineer.

Lectures and text-book courses are accompanied throughout by quantitative work in well-equipped laboratories.

Frequent visits are made to accessible engineering establishments to make the student thoroughly conversant with the trend of current engineering practice. For such purposes Dayton offers exceptional facilities owing to the great number and variety of engineering plants located in the city and vicinity.

Lectures by engineers in active service will help to keep the student in touch with professional work.

REQUIREMENTS OF ADMISSION

to the

COLLEGE OF ENGINEERING

Candidates for admission to the College of Engineering must be sixteen years old. They must give evidence of having satisfactorily completed an amount of preparatory work averaging sixteen units. By a unit is meant a subject pursued throughout the year, comprising four or five recitations per week. Studies pursued for half a year entitle to half a unit.

In the case of Graduates of a Preparatory School or a High School having a four years' course, the diploma of graduation may be accepted in lieu of an entrance examination.

In the latter case blanks of admission will be supplied by St. Mary College, which must be filled out and signed by the proper authority of the Preparatory School or High School.

The subjects of the sixteen units required for admission are arranged in two groups.

GROUP I	REQUIRED STUDIES	10 UNITS
Algebra	To Quadratics	1 unit
Algebra	Through Quadratics, Binominal Theorem	½ unit
Geometry	Plane	1 unit
Geometry	Solid	½ unit
English	Composition and Rhetoric	2 units
Languages	Latin or German or French	3 units
Physics	Elementary with Laboratory Practice	1 unit
Chemistry	Inorganic with Laboratory Practice	1 unit

GROUP II	OPTIONAL STUDIES	6 UNITS
Latin	Advanced	1 to 4 units
German	Advanced	1 to 4 units
Greek	Elementary	1 to 3 units
Trigonometry	Plane	½ unit
History	Ancient and Modern, Civics	2 units
Astronomy	Descriptive	½ unit
Botany	Elementary	½ unit
Zoology	Elementary	½ unit
Physiology	First Elements	½ unit
Physiography	Elements	½ unit
Freehand Drawing		½ unit
Mechanical Drawing		1 unit
Manual Training or Shopwork		1 unit

COLLEGE OF ENGINEERING

Faculty

Rev. Bernard P. O'Reilly, S. M.
President

Rev. Joseph A. Tetzlaff, S. M.
Vice-President

Bro. Adam Hofmann, S. M., M. Sc.
Mechanical Engineering

Bro. William J. Wohlleben, S. M., M. Sc., Ph. D.
Chemical Engineering, Mineralogy

Bro. Ulrich J. Rappel, S. M., B. A., M. Sc., Ph. D.
Formerly Assistant Professor of Physics
at the University of Fribourg, Switz.
Electrical Engineering

Bro. William Dapper, S. M., M. Sc.
Mathematics, German, French

Bro. Edward Knust, S. M., M. Sc.
Mathematics, Surveying

Bro. William A. Beck, S. M., M. Sc.
Physics, Biology

Bro. Francis J. O'Reilly, S. M., M. A.
Mechanical Drawing, English

Rev. Clement Wulf, S. M., M. A.
Logic, Psychology, Rational Theology

Rev. Francis Kunnecke, S. M., M. A.
Apologetics, Dogma, Moral

Bro. George L. Ley, S. M.

Bro. Thomas Poitras, S. M.
French

Bro. John Gareis, S. M.
Bro. Theodore Pluemer, S. M.
Librarians

Francis E. Canny, B. A., LL. B.
Elementary Law

Carl Mettler
Physical Instructor

STUDENTS' ADVISORY COMMITTEE

Bro. Adam Hofmann, S. M.

Bro. William J. Wohlleben, S. M.

Bro. Ulrich J. Rappel, S. M.

SPECIAL LECTURERS

F. J. Cellarius, C. E.
(Member of the Ohio Engineering Society)
Civil Engineer, Dayton

O. H. Hutchings
President of the Dayton Power and Light Co.

F. O. Clements, A. M., M. S.
Chief Chemist of the National Cash Register Company

Harry F. Finke, B. S.
Civil Engineer and Contractor

Louis H. McFadden, A. M.
Chief Chemist of Lowe Bros. Paint Company, Dayton, Ohio

ELECTRICAL ENGINEERING

The course in Electrical Engineering aims to give a broad knowledge of the Theory of Electricity and of its applications in the arts. The instruction is given by lectures, recitations, and laboratory work.

As the modern development of Electrical Engineering has taken place largely along lines dependent on a thorough acquaintance with the Theory of Electricity, great importance is attached to this study.

In the junior and senior years the lectures have a distinctly professional character.

The theoretical work is closely linked with an extended course of laboratory exercises. In the laboratories General Physical Measurements are first taken up, followed by General Electrical Measurements. This leads to work in Electrical Testing and Electrical Engineering where distinctly engineering problems are taken up. The work is so arranged as to develop in the students habits of observation, precision, initiative and industry.

COURSE IN ELECTRICAL ENGINEERING

Freshman Year

First Term

Subjects	Weeks	Periods per Week
Christian Doctrine (100)	17	2
English (110, 111)	17	2
French (120)	17	3
Scientific German (125)	17	2
Higher Algebra (151)	17	5
Trigonometry (150)	17	5
Mechanical Drawing (171)	17	8
Qualitative Chemistry (201)	17	3
Qualitative Anaylsis (202)	17	3
Use of Calculating Machines		

Second Term

Christian Doctrine (100)	17	2
English (110, 111)	17	2
French (121)	17	3
Scientific German (125)	17	2
Higher Algebra (151)	17	5
Descriptive Geometry (170)	17	8
Analytical Geometry (152)	17	5
Qualitative Chemistry (201)	17	3
Qualitative Analysis (202, 203)	17	3
Shop Work (230, 231)	8	44

COURSE IN ELECTRICAL ENGINEERING

Sophomore Year

First Term

Subjects	Weeks	Periods per Week
Christian Doctrine (101)	17	2
English (112, 113)	17	2
French (122)	17	3
Machine Drawing (172)	17	5
Calculus (153)	17	5
Vector Analysis (155)	17	1
Physics (180)	17	3
Physical Laboratory (181)	17	6
Surveying (163)	17	5

Second Term

Christian Doctrine (101)	17	2
English (112, 113)	17	2
French (123)	17	3
Machine Drawing (172)	17	5
Calculus (154)	17	5
Vector Analysis (155)	17	1
Differential Equations (156)	17	2
Physics (180)	17	3
Physical Laboratory (181)	17	6
Shop Work (232, 233, 234)	8	44

COURSE IN ELECTRICAL ENGINEERING

Junior Year

First Term

Subjects	Weeks	Periods per Week
Christian Doctrine (102)	17	2
Spanish (optional) (130)	17	2
Dynamo Electric Machinery (186)	17	3
Electrical Measurements (185)	17	3
Theoretical Mechanics (160)	17	5
Applied Mechanics / Strength of Materials (161)	17	3
Theory of Mechanism (157)	17	1
Electrical Laboratory (188)	17	5
Machine Design (173)	17	3

Second Term

Christian Doctrine (102)	17	2
Spanish (optional) (130)	17	2
Dynamo Electric Machinery (186)	17	3
Electrical Measurements (185)	17	3
Theoretical Mechanics (160)	17	5
Applied Mechanics / Strength of Materials (161)	17	3
Theory of Mechanism (157)	17	1
Electrical Laboratory (188)	17	5
Thermodynamics (158)	17	2
Machine Design (173)	17	3
Electrical Machine Construction (194)	8	44

COURSE IN ELECTRICAL ENGINEERING

Senior Year

First Term

Subjects	Weeks	Periods per Week
Christian Doctrine (103)	17	2
Theory of Alternating Currents and Alternating Current Machinery (187)	17	5
Electrical Measurements, Illumination and Photometry (185)	17	3
Electrical Laboratory (189)	17	5
Philosophy: Logic (104)	17	2
Electrical Design (191)	17	5
Telephony and Telegraphy (195)	17	2
Seminar (193)	17	1

Second Term

Christian Doctrine (103)	17	2
Theory of Alternating Currents and Alternating Current Machinery (187)	17	5
Electrical Measurements (185)	17	3
Electrical Distribution and Control (190)	17	3
Electrical Laboratory (189)	17	5
Hydraulics (162)	17	2
Philosophy: Psychology (105)	17	2
Electrical Design (191)	17	5
Economics (106)	17	1
Seminar (193)	17	1
Excursions (192)		

CHEMICAL ENGINEERING

In arranging the following Course of Chemical Engineering, the Faculty has aimed at meeting the needs of such students who desire to obtain a fundamental knowledge of Chemistry and other allied subjects so as to enable them to deal with problems of construction, operation, and maintenance in connection with manufacturing processes that are essentially chemical in character. With this end in view, the course includes instruction in Qualitative and Quantitative Chemical Analysis in its various phases, in Organic and Technical Chemistry. In the Laboratory the Synthesis of typical chemical compounds leads up to the actual analysis of mixtures, alloys, and minerals according to the gravimetric, volumetric, and electrolytic methods. This work is followed by extensive practice in the domains of Organic Chemistry, Organic Technology, and Physical Chemistry. Collateral courses include Mechanical Drawing, Higher Mathematics, Advanced Physics, Mineralogy, the study of Electrical Currents and Machinery, and of one or more Modern Languages. The student is thus expected to be equipped to solve the problems constantly confronting the Chemical Engineer in the industrial field.

The Chemical Laboratories are provided with a complete stock of all necessary glass, porcelain, platinum and other metal ware, water, gas, and air-blast. Each student is provided with a locker containing all necessary apparatus for his work. Special apparatus for gas, fuel, water, and mineral analysis is also at hand, as well as analytical balances of standard makes and great sensitiveness. Modern appliances are also at the disposal of the student for electro-analysis. Numerous fume hoods insure proper ventilation of the rooms. Regard for the comfort of one's fellow-students is insisted upon. The Department Library contains standard chemical periodicals and publications in English, German and French.

COURSE IN CHEMICAL ENGINEERING

Freshman Year

First Term

Subjects	Weeks	Periods per Week
Christian Doctrine (100)	17	2
English (110, 111)	17	2
French (120)	17	3
Scientific German (125)	17	2
Higher Algebra (151)	17	5
Trigonometry (150)	17	5
Mechanical Drawing (171)	17	8
Qualitative Chemistry (201)	17	3
Qualitative Analysis (202)	17	3
Use of Calculating Machines.		

Second Term

Christian Doctrine (100)	17	2
English (110, 111)	17	2
French (121)	17	3
Scientific German (125)	17	2
Higher Algebra (151)	17	5
Descriptive Geometry (170)	17	8
Analytic Geometry (152)	17	5
Qualitative Chemistry (201)	17	3
Qualitative Analysis (202, 203)	17	3
Shop Work (230, 231)	8	44

COURSE IN CHEMICAL ENGINEERING

Sophomore Year

First Term

Subjects	Weeks	Periods per Week
Christian Doctrine (101)	17	2
English (112, 113)	17	2
French (122)	17	3
Quantitative Analysis (204)	17	7
Calculus (153)	17	5
Vector Analysis (155)	17	1
Physics (180)	17	3
Physical Laboratory (181)	17	6
Mineralogy (220)	17	2

Second Term

Christian Doctrine (101)	17	2
English (112, 113)	17	2
French (123)	17	3
Quantitative Analysis (205)	17	7
Calculus (154)	17	3
Vector Analysis (155)	17	1
Differential Equations (156)	17	2
Physics (180)	17	3
Physical Laboratory (181)	17	6
Shop Work (232, 233, 234)	8	44

COURSE IN CHEMICAL ENGINEERING

Junior Year

First Term

Subjects	Weeks	Periods per Week
Christian Doctrine (102)	17	2
Spanish (optional) (130)	17	2
Technical Analysis (207)	17	6
Electrochemistry (206)	6	6
Organic Chemistry (208)	17	3
Theoretical Mechanics (160)	17	5
Applied Mechanics / Strength of Materials (161)	17	3
Electrical Labratory (188)	17	3
Machine Design (173)	17	3
Seminar (212, 213)	17	1

Second Term

Christian Doctrine (102)	17	2
Spanish (optional) (130)	17	2
Technical Analysis (207)	12	5
Organic Chemistry (208)	17	3
Chemical Technology (210)	17	2
Theoretical Mechanics (160)	17	5
Applied Mechanics / Strength of Materials (161)	17	3
Electrical Laboratory (188)	17	3
Thermodynamics (158)	17	2
Machine Design (173)	17	3
Seminar (212, 213)	17	1

COURSE IN CHEMICAL ENGINEERING

Senior Year

First Term

Subjects	Weeks	Periods per Week
Christian Doctrine (103)	17	2
Physical Chemistry (211)	17	2
Organic Practice (209)	17	12
Chemical Technology (210)	17	2
Philosophy: Logic (104)	17	2
Seminar (212, 213)	17	1
Inspection Visits (214)		

Second Term

Christian Doctrine (103)	17	2
Organic Practice (209)	17	12
Physical Chemistry (211)	17	2
Hydraulics (162)	17	2
Philosophy: Psychology (105)	17	2
Economics (106)	17	1
Seminar (212, 213)	17	1
Inspection Visits (214)		

COURSE IN CIVIL ENGINEERING

The course in Civil Engineering is so designed as to give the student a thorough theoretical and practical training in the fundamental sciences upon which professional practice is based. Moreover, care is taken to make this foundation broad enough to prepare the student to pursue to advantage any line of Civil Engineering practice, whether it be Topographical, Railroad, Municipal, Structural or Hydraulic. All of these are but ramifications of the same parent stem and grow from a relatively compact body of principles. It is in these principles that the student is trained by practice in the class room, drafting room, field and testing laboratory.

As in the other departments, special attention is given to develop in the student habits of observation, precision, initiative and industry. Particular stress is laid upon the systematic reading of current technical publications.

Visits of inspection are paid to civil engineering works of note, both completed and in porcess of construction. After each such visit the student is obliged to draw up a detailed critical report.

COURSE IN CIVIL ENGINEERING

Freshman Year

First Term

Subjects	Weeks	Periods per Week
Christian Doctrine (100)	17	2
English (110, 111)	17	2
French (120)	17	3
Scientific German (125)	17	2
Higher Algebra (151)	17	5
Trigonometry (150)	17	5
Mechanical Drawing (171)	17	8
Qualitative Chemistry (201)	17	3
Qualitative Analysis (202)	17	3
Use of Calculating Machines		

Second Term

ChristianDoctrine (100)	17	2
English (110, 111)	17	2
French (121)	17	3
Scientific German (125)	17	2
Higher Algebra (151)	17	4
Descriptive Geometry (179)	17	8
Analytical Geometry (152)	17	5
Qualitative Chemistry (201)	17	2
Qualitative Analysis (202, 203)	17	4
Shop Work (230, 231)	8	44

COURSE IN CIVIL ENGINEERING

Sophomore Year

First Term

Subjects	Weeks	Periods per Week
Christian Doctrine (101)	17	2
French (122)	17	2
English (112, 113)	17	3
Machine Drawing (172)	17	5
Calculus (153)	17	5
Vector Analysis (155)	17	1
Physics (180)	17	3
Physical Laboratory (181)	17	6
Surveying (163)	17	6
Mineralogy (220)	17	2

Second Term

Christian Doctrine (101)	17	2
English (112, 113)	17	2
French (123)	17	3
Machine Drawing (172)	17	5
Calculus (154)	17	5
Vector Analysis (155)	17	1
Differential Equations (156)	17	2
Physics (180)	17	3
Physical Laboratory (181)	17	6
Topographical Surveying (164)	17	5
Geology (221)	17	2
Stereotomy (300)	17	3
Shop Work (232, 233, 234)	8	44

COURSE IN CIVIL ENGINEERING

Junior Year

First Term

Subjects	Weeks	Periods per Week
Christian Doctrine (102)	17	2
Applied Mechanics / Strength of Materials (161)	17	8
Machine Design (173)	17	4
Stresses (301)	17	6
Railroad Engineering (303)	17	5
Electrical Engineering Laboratory (305)	17	3
Surveying (163)	17	2

Second Term

Christian Doctrine (102)	17	2
Applied Mechanics / Srength of Materials (161)	17	8
Machine Design (173)	17	4
Hydraulics (306)	17	5
Graphic Statics (302)	17	5
Practical Astronomy and Geodesy (307)	17	4
Railroad Engineering (303)	17	5
Electrical Engineering Laboratory (305)	17	3

COURSE IN CIVIL ENGINEERING

Senior Year

First Term

Subjects	Weeks	Periods per Week
Christian Doctrine (103)	17	2
Economics (106)	17	2
Philosophy: Logic (104)	17	2
Prime Movers (308)	17	2
Masonry (309)	17	5
Theory of Structures: Bridges and Similar Structures (310)	17	8
Hydraulic and Sanitary Engineering (311)	17	5
Railroad Engineering (304)	17	1

Second Term

Christian Doctrine (103)	17	2
Philosophy: Psychology (105)	17	2
Prime Movers (308)	17	4
Highway Engineering (312)	17	1
Theory of Structures: Bridges and Similar Structures (310)	17	8
Hydraulic and Sanitary Engineering (311)	17	4
Railroad Engineering (304)	17	4

COURSE IN MECHANICAL ENGINEERING

The course in Mechanical Engineering is so designed as to give the student a thorough training in Mathematics, Physics and Applied Mechanics. Then by means of lectures, laboratory work and drafting room work the student is made familiar with the various problems that confront the mechanical engineer.

As a certain amount of training in the Mechanical Arts is necessary for the intelligent and successful designing of machinery, the student is given exercise in the use of shop tools, in pattern work, foundry practice, forging and machine tool work.

Throughout the course special attention is given to develop in the student habits of observation, precision, initiative and industry. Particular stress is laid upon the systematic reading of current technical publications.

Dayton, the home of the National Cash Register Company and the city of a thousand factories, offers unusual advantages for visits of inspection to manufacturing establishments and power plants. After each such visit the student is required to draw up a detailed critical report.

COURSE IN MECHANICAL ENGINEERING

Freshman Year

First Term

	Weeks	Periods per Week
Christian Doctrine (100)	17	2
English (110, 111)	17	2
French (120)	17	3
Scientific German (125)	17	2
Higher Algebra (151)	17	5
Trigonometry (150)	17	5
Descriptive Geometry (170)	5	8
Mechanical Drawing (171)	12	8
Qualitative Chemistry (201)	17	3
Qualitative Analysis (202)	17	3

Use of Calculating Machines.

Second Term

Christian Doctrine (100)	17	2
English (110, 111)	17	2
French (121)	17	3
Scientific German (125)	17	2
Higher Algebra (151)	17	4
Descriptive Geometry (170)	17	8
Analytical Geometry (152)	17	5
Qualitative Chemistry (201)	17	2
Qualitative Analysis (202)	17	4
Shop Work (230, 231)	8	44

COURSE IN MECHANICAL ENGINEERING

Sophomore Year

First Term

	Weeks	Periods per Week
Christian Doctrine (101)	17	2
English (112, 113)	17	2
French (122)	17	3
Machine Drawing (172)	17	5
Calculus (153)	17	5
Vector Analysis (155)	17	1
Physics (180)	17	3
Physical Laboratory (181)	17	6
Surveying (163)	17	5

Second Term

Christian Doctrine (101)	17	2
English (112, 113)	17	2
French (123)	17	3
Machine Drawing (172)	17	5
Calculus (154)	17	5
Vector Analysis (155)	17	1
Differential Equations (156)	17	2
Physics (180)	17	3
Physical Laboratory (181)	17	6
Shop Work (232, 233, 234)	8	44

COURSE IN MECHANICAL ENGINEERING

Junior Year

First Term

	Weeks	Periods per Week
Christian Doctrine (102)	17	2
Applied Mechanics / Strength of Materials (161)	17	8
Machine Design (173)	17	4
Thermodynamics (158)	17	2
Mechanical Laboratory (313)	17	4
Metallurgy of Iron (332)	17	1
Steam Engineering (330)	17	3
Engine and Boiler Design (331)	17	6
Electrical Engineering Laboratory (305)	17	3
Inspection Visits.		

Second Term

Christian Doctrine (102)	17	2
Applied Mechanics / Strength of Materials (161)	17	8
Theoretical Mechanics (160)	17	5
Machine Design (175)	17	10
Hydraulics (306)	17	2
Steam Power Plants (333)	17	4
Electrical Engineering Laboratory (305)	17	3
Inspection Visits.		

COURSE IN MECHANICAL ENGINEERING

Senior Year

First Term

	Weeks	Periods per Week
Christian Doctrine (103)	17	2
Economics (106)	17	2
Philosophy: Logic (104)	17	2
Gas Power Plants (334)	17	2
Dynamics of Machines (335)	17	2
Machanical Laboratory (313)	17	6
Power Machinery (336)	17	11
Electrical Laboratory (305)	17	3

Second Term

Christian Doctrine (103)	17	2
Philosophy: Psychology (105)	17	2
Economics (106)	17	2
Hydraulic Motors (337)	17	2
Rapid Production Machinery (338)	17	1
Pumps and Compressors (339)	17	2
Heating and Ventilation (340)	17	1
Mechanical Laboratory (313)	17	7
Power Machinery Design (336)	17	11

SUBJECTS OF INSTRUCTION

100. Moral. Freshman Year. One and One-half Hours a Week.

Nature and Distinction of Laws; Conscience; Sin; Virtue; Precepts of the Decalogue; Forms of Worship; Oaths and Vows; Obligation of Hearing Mass; Suicide; Murder, Scandal; Dueling; Duty and Right; Violation of Rights; Restitution; Contracts; Fraud; Lying; Detraction; Calumny; Violation of the Secret; Commandments of the Church; Fasting and Abstinence; Laws of Marriage; Christian Perfection; Evangelical Counsels; States of Life; Vocation. The Sacraments: Confession, Holy Communion, Holy Orders, Matrimony. Feasts, Ceremonies and Religious Practice of the Church.

101. Dogma. Sophomore Year. One and One-half Hours a Week.

The Holy Religion; God. His Essence and Attributes; Blessed Trinity; Creation of the World; the Angels; Man; Original Sin; the Incarnation; Jesus Christ in the Prophecy, on Earth, in Glory; the work of Jesus Christ; Grace; Merit; Essence and Existence of the Sacraments; Effects and Efficacy of the Sacraments; Indulgences; Virtue; Last Four Things.

102. Apologetics. Junior Year. One and One-half Hours a Week.

Religion, Revelation, Function of Reason in matter of Faith.

Historical value of the Sacred Scriptures. The Pentateuch; the Pentateuch and Science—Geology, Astronomy, Biology, Paleontology. The Bible and modern discoveries in Egypt, Assyria and Chaldea. Historical value of the Gospels.

Demonstration of the Divinity of the Christian religion. Miracles and Prophecies, Phenomenon of Hypnotism. Ten proofs of the Divinity of the mission of Jesus Christ and His work, the establishment of the Christian Religion. Christianity and Buddhism, Christian Science and Faith Cure. Truth of the Catholic Religion. (1) The Roman Catholic Church possesses the four positive marks of the true Church. Protestantism: The Original Schismatic Church. Prerogatives conferred by Jesus Christ upon the Church. (2) Accusations brought against the Church. Intolerance; the Vicious Circle; the Inquisition; Gallileo; Massacres of St. Bartholomew; Crusades; Wars of Religion; Revocation of the Edict of Nantes; Temporal Power of the Popes; Authority of the Popes in the Middle Ages; Bad Popes; the Church and Civilization.

103. Rational Theology. Senior Year. One and One-half Hours a Week.

1. Definition and scope. Relation to Dogmatic Theology. The Existence of God. Necessity of demonstrating the existence of God. Demonstration; arguments from motion, contingency, causality, axiomatic truths, duty, moral sanctions, relativity, design; ontological argument. Atheism: Idealistic Atheism, Materialistic Atheism, Practical Atheism, Religious and Moral Consequences of Atheism.

2. Nature and Attributes of God. Manner of Determining the Attributes of God; the Essence of God, and His metaphysical attributes, simplicity, perfection; idea of the infinite; immutability, eternity, unity, omnipresence. Moral attributes of God or the divine personality; God's knowledge; divine knowledge and human knowledge; divine knowledge and human liberty; divine will. Pantheism among the ancients; in the Middle Ages. Modern Pantheists, Spinoza's theory of substance, Fichte, Shelling, Hegel, Anthropomorphism.

3. Creation and Evolution. Creation according to St. Thomas; evolution according to the Fathers; evolution and the Bible.

104. Logic. Senior Year. First Term. Two Hours a Week.

General Introduction; Object of Logic; Divisions of Logic; Plan of Logic.

Formal Logic: On Concepts and Terms; The Proposition; The Syllogism.

Applied Logic or Methodology: On Method in General; Demonstration; Mathematical Demonstration; Method of the Physical Sciences; Method of the Natural Sciences; Method of the Moral Sciences; Errors and Sophisms; Truth and Science; The Principal Scientific Hypotheses.

105. Psychology. Senior Year. Second Term. Two Hours a Week.

Object of Psychology: The Facts of Consciousness; The Faculties of the Soul; The Soul; Method of Experimental Psychology.

Treatise on Sensibility: Sense Perception; Consciousness of Sensations; Pleasure and Pain; The Mental Image; The Memory; Associations of Ideas; Instinct; Appetency and Passion; The Motor Faculty.

Treatise on the Intellect. Attention; Abstraction; Generalization; Conception; Judgment; Reasoning; First Principles.

Treatise on the Will: Nature of the Will; Moral Liberty; Determinism.

106. Economics. Senior Year. One Term. One Hour a Week.

Essential elements of the abstract theory of Economics; application, exemplifications of the theory; money, banking, transportation, international trade; monopoly; legal aspects of specifications and contracts.

110. English. General Composition. Freshman Year. Two Terms. One Hour a Week.

The object of this course in Geenral Composition is to enable the student to acquire clearness and precision in written discourse. Instruction is given in Exposition, Narration, Argument, and Description, and is carried on by means of lectures and frequent conferences in which students receive individual criticism of their themes. In addition several lengthy essays are required, these to be based on the work done in the various departments.

Reading Course: As direct acquaintance with literary masterpieces makes for culture, a list of titles of some 12 standard English authors is given to each student at the beginning of the year. No study or analysis is attempted, the object being to lead the students to appreciate the charm of the best literature and to form the habit of reading good books.

111. Public Speaking. Freshman Year. Two Terms. One Hour a Week.

The course covers the principles of oratory and of the several forms of public speaking. In the second term, special emphasis is laid on the application of these principles by embodying them in oral reviews and criticisms based on editorials, articles in scientific periodicals, etc. A study is made of parliamentary rules that govern public meetings, the duties of toastmaster, and chairman, and all manner of extemporaneous speaking. Frequent debates on economic, political and social questions are held.

112. Engineering Writing. Sophomore Year. Two Terms. One Hour a Week.

Preparation of Engineering Papers. Mechanical Details of the various forms of Technical Writing. Essentials of Business Letters: Letters of Application, Giving Instruction, of inquiry, or Invitation, Containing Quotation of Prices, Information on Contracts, Orders for Goods, etc. Scope and Importance of Reports in the work of the Engineer. Articles for Technical Journals: Short Articles—Editorials, Summaries and Abstracts, Book Reviews, Explanations of New Inventions; Longer Articles—Detailed descriptions of Installation of Plants, Solution of Engineering Problems, etc. Preparation of Manuscription and Correction of Proof.

113. Reading Course. Sophomore Year. Two Terms. One Hour a Week.

At the beginning of both terms each student is given a list of 12 standard American authors, due consideration being given to the more prominent present-day masters of prose and verse.

120. French. Freshman Year. First Term. Three Hours a Week.

Elementary Grammar, Pronunciation, written exercises. Based on Syms' First Year French.

121. French. Second Term. Three Hours a Week.

Continuation of work done during the First Semester; reading of simple French short stories; study of simple memory selections; conversation.

Collateral Reading: Fables Choisies de La Fontaine. Les Plus Jolis Contes des Fées (Lazare).

122. French. Sophomore Year. First Term. Three Hours a Week.

Advanced Grammar; written exercises; conversation; continuation of reading and memory selections of the first year.

Based on Syms' Third Year in French.

Collateral Reading: Aldrich and Foster's French Reader. Fleurs de France. Contes de Daudet.

123. French. Second Term. Three Hours a Week.

Continuation of the work of the preceding semester.

Syms' Third Year in French is completed; a general review of French Grammar is made and exercises in French Composition are made weekly.

Collateral Reading: Choix de Contes Contemporains. Contes Choisis de J. Lamaitre. Contes Choisis de Rene Bazin. Plays selected from Labiche and Legouve.

125. Scientific German. Freshman Year. Two Terms. Two Hours a Week.

The course presupposes the ability to read easy narrative prose at sight. The object of the instruction is to prepare the student to make practical use of scientific treatises and periodicals for the purpose of investigation. Translations of scientific articles in German publications are made a feature of this course.

130. Spanish. Junior Year. Two Terms. Two Hours a Week.

Garner, Spanish Grammar. Course in elementary Spanish. Stress laid on pronunciation and conversation.

Translation of easy tales from Trueba; select fables of Samaniego.

150. Trigonometry. Freshman Year. First Term. Five Hours a Week.

Trigonometric Functions: Variations of Trigonometric Functions; Functions of the Sum and Difference of Arcs; Functions of Multiple Arcs; Inverse Functions; Solution of Triangles; Application of Trigonometry to the Solution of Quadratic Equations; Moivre's Theroem; Trigonometric Equations and Identities; Trigonometric Series; Miscellaneous Problems.

151. Higher Algebra. Freshman Year. First Term. Five Hours a Week.

Theory of Quadratic Equations; Theory of Exponents; Radicals; Theory of Numbers. Imaginary Quantities; Complex Numbers; Mathematical Induction; Permutations and Combinations; Determinants, Convergency, and Summation of Series; Binomial Theorem; Theory of Equations; Sturm's Theorem; Horner's Method of Solving Numerical Equations.

152.—Analytic Geometry. Freshman Year. Second Term. Five Hours a Week.

Analytic Geometry of Two and Three Dimensions; Various Systems of Coordinates; Loci Problems; Study of the Line; the Circle; the Parabola; the Ellipse; the Hyperbola; Tangents; Normals; General Equation of the Second Degree; Higher Plane Curves; Surfaces of Revolution.

153. Differential Calculus. Sophomore Year. First Term. Four Hours a Week.

Theory of Functions; Differentiation of Algebraic and Transcendental Forms; Implicit Functions; Expansion of Functions by Taylor's and Maclaurin's Theorem; Indeterminate Forms; Partial Differentiation; Direction of Curves; Tangents and Normals; Asymptotes; Multiple Points; Study of Curvature; Involutes and Evolutes; Envelopes; Maxima and Minima.

154. Integral Calculus. Sophomore Year. Second Term. Three Hours a Week.

Elementary Forms of Integration; Integration of Rational Fratcions; Integration by Parts; Trigonometric Integrals; Integration as a Summation; Application of Integration to Plane Curves; Volumes of Revolution; Double Integration; Moments of Inertia; Surface and Volume of any Solid.

155. Vector Analysis. Sophomore Year. First and Second Terms. One Hour a Week.

Elementary Operations of Vector Analysis. Composition and Decomposition of Vectors; Unit Vector; Vector Equations of the Straight Line and Plane; Centroids; Scaler and Vector Products; Line Integral; Surface Integral; Vector and Scaler Products of Three Vectors; Circle and Sphere;

Differentiation of Scaler and Vector Products; Tangents and Normals; Curvature; Equations of Surfaces; Partial Differentiation; The Differential Operator (Del).

156. Differential Equations. Sophomore Year. Second Term. Two Hours a Week.

Formation of a Differential Equation; Equations of the First Order and of the First Degree; Equations of the First Order, but not of the First Degree; Singular Solutions; Linear Equations; Linear Equations with Variable Coefficients; Equations of the Second Order; Equations with more than Two Variables; Partial Differential Equations.

157. Theory of Mechanism. Junior Year. First and Second Terms. One Hour a Week.

The geometry of machinery, showing the laws which govern the velocities of the moving parts and the correct forms for gear-teeth, cams, and link motions.

158. Thermodynamics. Junior Year. Second Term. Two Hours a Week.

The principle of the Conservation of Energy. The general laws of thermodynamics as applied to perfect gases, super-heated vapors, etc.; isothermal and adiabatic expansion. Carnot's Principle; Application of the principle especially in connection with the study of the steam engine.

160. Theoretical Mechanics. Junior Year. First and Second Terms. Five Hours a Week.

Kinematics: Linear, Plane, Spherical, Screw Motions; Velocity; Acceleration; Angular Acceleration.

Dynamics: Mass; Moments of Mass; Centroids; Momentum; Force; Energy.

Statics: Concurrent Forces; Parallel Forces; Theory of Couples; Principles of Virtual Work.

Kinetics: Impulses; Impact of Homogenous Spheres; Rectilinear, Free Curvilinear and Constrained Motions of a Particle; Kinetics of Rigid Bodies.

161. Applied Mechanics and Strength of Materials. Junior Year. First and Second Terms. Three Hours a Week.

The Physical Qualities of Materials of Construction; the Study of Stresses and Strains in the same. Safe Limit of Elasticity; Modulus of Elasticity; Experiments in Tension; Compression, Shearing, Torsion, Special Problems in Flexure of Beams.

Construction of Strength of Arches; Graphical Method for Arch-Ribs of Hinged Ends and of Fixed Ends; Stress Diagrams; Temperature Stresses: Braced Arches.

162. Hydraulics. Senior Year. Second Term. Two Hours a Week.

Fluid Pressure in Tanks and Reservoirs; Earth Pressure and Retaining Walls; Steady Flow of Liquids through Pipes and Orifices; Coefficient of Friction of Water in Pipes; Loss of Head due to Elbows, Bends, Valve-Gates, and Throttle-Valves.

163. Surveying. Sophomore Year. First Term. Five Hours a Week.

Chain Surveying: Measurements of Distances; Use of Chain and Tape; Stadia Wires; Area of Contents of Ground.

Compass Surveying: Surveyor's Compass; Correction of Local Attraction; Field Notes; Variation of Needle in Declination; Area or Contents of Ground.

Transit Surveying: Study of the Transit; Measurements of Angles; Ranging of Lines; Farm Surveying; Laying out and Dividing of Land.

Leveling: Study of the Y Level; Use of Leveling Rod; Section Leveling; Cross-section Leveling; Computation of Earthwork.

164. Surveying. Sophomore Year. Second Term. Five Hours a Week.

Topographical Surveying: Definitions and Principles; Shading and Delineation; Topographical Signs; Mapping Contour Lines.

Railway Curves: Definition and Principles; Location of Curves; Laying off Ordinates; Reversed and Compound Curves.

165. Astronomy. Three Hours a Week.

The Earth; The Observatory; Refraction; The Sun; The Solar System-Parallax; Determination of the First Point of Aries; Precession; Nutation and Aberration; Navigation; Fixed Stars; Spectrum Analysis; Masses of Heavenly Bodies.

170. Descriptive Geometry. Freshman Year. Second Term. Eight Hours a Week.

Elementary Principles; Notation; Problems Relating to the Point, Line and Plane; Principles and Problems Relating to the Cylinder Cone and Double Curved Surface of Revolution; Intersection of Planes and Solids; Development of Solids; Intersection of Solids; Miscellaneous Problems.

171. Mechanical Drawing. Freshman Year. First Term. Eight Hours a Week.

Use of Drawing Instruments; Lettering; Conic Sections; Projection Drawing; Intersection of Planes and Solids; Intersection of Solids.

Drawing of the second term is taken in connection with the course of Descriptive Geometry outlined above.

172. Machine Drawing. Sophomore Year. First and Second Terms. Five Hours a Week.

This course is intended to give general information on simple machine details, such as bolts, screws, springs, keys, flanges, pipe fitting, valves, etc. Great attention is given to the reading of blueprints.

173. Machine Design. Junior Year. First and Second Terms. Three Hours a Week.

This course is intimately connected with the several departments of engineering. Freehand sketching from machine parts and models are made, and the transferring of the sketching into Machine Drawings is required. It is the aim of the course to teach the student to make complete sets of working and assembly drawings for special machines, by applying all the principles acquired in the class room and the shops.

180. Physics. Sophomore Year. First and Second Terms. Three Hours a Week.

The aim of this course is to furnish all the knowledge of physics required in the technical courses of the Engineering Department. The subjects considered are general mechanics, molecular mechanics, wave motion, electricity, magnetism, sound and optics. These topics are discussed both mathematically and experimentally, while the historical and descriptive aspects are not overlooked. The physical principles and the applications thereof are very fully illustrated by an extensive series of lecture-table demonstrations and lantern projections.

181. Physical Laboratory. Sophomore Year. First and Second Terms. Six Hours a Week.

The work in the Physical Laboratory is from the beginning exclusively quantitative. It is so mapped out as to teach the student to make accurate measurements, to impart dexterity in the manipulation of instruments, and to give practice in properly noting, interpreting, and reducing experimental data. The student at the same time gets a clear understanding of the principles of Physics that he has learned in the lecture-room.

The following questions are treated in the laboratory: Uniformly accelerated motion; force proportional to rate of change of momentum; composition and resolution of forces; the principle of work; energy and efficiency; the laws of impact; elastic impace; coefficient of restitution; elasticity; Hook's law; Young's modulus; the coefficient of rigidity; moment of inertia; simple harmonic motion; determination of "g"; the law of centripetal force; Boyles' law; density of air; the measurement of temperature; law of Avogadro;

densities of gases and vapors; the pressure-temperature curve of a saturated vapor; hygrometry; Archimedes' principle; capillarity; calorimetry; expansion.

Magnetic and electric fields of force; determination of the strengths of magnetic fields and magnetic poles; measurement of electric currents; measurement of potential difference; measurement of resistance; temperature coefficient of resistance; specific resistance; galvanometer constant of a moving-coil galvanometer; absolute measurement of capacity; comparison of capacities, determination of dielectric constants, and the ratio of the electro-static and electro-magnetic units; electromotive force and internal resistance; comparison of electromotive forces; electro-magnetic induction; constants of the earth's magnetic field; self-induction; magnetic induction in iron; electrolytic conduction; velocity of sound in air; musical properties of air chambers; longitudinal vibrations of rods; waves in strings; diffraction of sound and light waves; diffraction gfrating; refraction of light; total reflection; dispersion and spectra; polarized light; radio-activity.

185. Electrical Measurements and Measuring Instruments. Junior and Senior Years. First and Second Terms. Three Hours a Week.

The aim of this course is to set forth the theory of electrical measurements, the theory and mechanical construction of the instruments used, the degree of precision attainable, and the possible sources of error. The course likewise includes a systematic round of laboratory exercises in electricity and magnetism. The principal questions handled are the following: The determination of resistance by the various methods, insulation tests, comparisons of electromotive forces by the method of compensation, use of the potentiometer the various forms of voltameters, the calibration and correction of voltameters, ammeters, and wattmeters; storage battery tests, use of the electrometer, measuring and comparison of capacities and coefficients of self-induction, mutual induction laws of the electromagnet, measurement of induction, use of the bismuth spiral and magnetic balance, the determination of the permeability of iron, hysteresis tests, etc.

Besides these electro-magnetic measurements, there is likewise a series of photometric measurements on incandescent and arc lamps with the Bunsen, Lummer-Brodhum, Martens Weber, Polarisation and Integrating photometers.

The students are required to hand in written reports of their work in the laboratory, accompanied with standard diagrams of connections, and graphs showing the results of their tests.

186. Dynamo Electric Machinery. Junior Year. First and Second Terms. Three Hours a Week.

This course embraces a study of Ohm's law and Kirchhoff's laws and various applications thereof; a study of electro-magnets and the magnetic properties of iron; the theory, construction, and characteristics of series shunt and compound generators, and the theory of commutation; parallel operations, speed control of motors, as also a discussion of the principles that underlie generator and motor testing.

187. Theory of Alternating Currents and Alternating Current Machinery. Senior Year. First and Second Terms. Three Hours a Week.

This course comprises a study of the mathematical theory of alternating current phenomena. In the development both vectorial and analytical methods are used. The general notions of harmonic functions are applied to alternating current circuits. A detailed study is made of circuits containing impedances and capacities in series and parallel; of the measurements of power in single phase and polyphase circuits.

In this course likewise a study is made of the construction, principles of operation and behavior of single and polyphase generators and motors, the transformer, induction motor, the synchronous motor and the rotary converter.

188. Electrical Laboratory. Junior Year. First and Second Terms. Five Hours a Week.

The work in the electrical laboratory includes the taking up of the characteristic curves of direct current machines to study their performance; the determination of the armature reaction; the making of efficiency regulation and heat tests; the determination of the torque of motors; a study of the various methods of operating generators and motors and their auxiliary control apparatus.

189. Electrical Laboratory. Senior Year. First and Second Terms. Five Hours a Week.

The work includes the study of circuits possessing inductance and capacity, the study of alternators, synchronous motors, rotary converters, transformers, frequency changes, and meters; the use of the oscillograph and Braun's tube; the analytical presentation of the curves found experimentally. To this is added a study of high voltage phenomena and the determination of the dielectric strength of insulating materials.

190. Electric Distribution and Control. Senior Year. Second Term. Three Hours a Week.

This course embraces the design and calculation of circuits for the distribution of power by direct currents; a

study of distribution-systems, regulating apparatus, and storage batteries. Alternating current transmission and distribution is next considered, particular attention being given to high tension transmission, including the installation and operation of high tension systems.

191. Electrical Design. Senior Year. First and Second Terms. Five Hours a Week.

In this course every student is required to complete an original design of each of the following types of electro-magnetic machinery: a lifting electro-magnet, a magnetic clutch or system of electrical manipulation; a direct current generator or motor; an alternating current generator or synchronous motor; an induction motor; a transformer.

192. Excursions. Senior Year. Second Term.

Visits of inspection are made to various power and industrial plants in and about Dayton. Occasionally a more extended trip is made to some large industrial center. Formal reports, on such inspection trips, are required.

193. Seminar. Senior Year. First and Second Terms. One Hour a Week.

Several times a month the students and department instructors meet for the purpose of considering the more important articles appearing in the current electrical and technical journals. Abstracts of articles are prepared and read by the students. The reading is followed by a general discussion. At the meetings, likewise, occasional lectures are given by engineers in active practice upon subjects with which they are especially familiar

194. Electrical Machine Construction. Junior Year. Practice Term.

In this course the students are given practice in winding fields and armatures, assembling the parts of motors, generators and transformers, and making a running test.

195. Telephony and Telegraphy. Senior Year. First Term. Two Hours a Week.

This course comprises a study of the theory and construction of telephone and telegraph apparatus and the applications thereof to the more common circuits used in local and long distance substations and central offices, and private branch exchanges. Methods of combining telephone and telegraph lines are likewise considered. A thorough study is made of Morse repeaters, duplex sets, simplex and composite sets, etc. Finally the student is given a thorough understanding of the construction and operation of the Automatic Switchboard system.

201. Qualitative Chemistry (Lecture Course). Freshman Year. First Term. Two Hours a Week.

A lecture course, fully illustrated, in which the metallic elements are studied from the standpoint of their analytical classification, going into details regarding their reactions with the typical reagents. Acid analysis is also taken up and the problems of qualitative analysis are considered in their various phases.

202. Qualitative Analysis (Laboratory Course). Freshman Year. First Term. Four Hours a Week.

The student is required to separate and to identify the various metallic and non-metallic elements, inorganic and common organic acids contained in materials of graded complexity.

203. Qualitative Analysis (Laboratory Course). Freshman Year. Second Term. Four Hours a Week.

The work under 202 is continued and completed. with special reference to full qualitative identification of complex minerals and alloys.

204. Quantitative Analysis. Sophomore Year. First Term. Seven Hours a Week.

This course provides a training in the accepted methods of quantitative analysis and follows courses 202 and 203. The work includes the gravimetric estimation of such metals as aluminum, copper, calcium, the halogens, sulphur and nitrogen, and the components of common alloys.

205. Quantitative Analysis. Sophomore Year. Second Term. Seven Hours a Week.

The work assigned is a continuation of the course 204 and introduces the student into the methods of calibration of apparatus, acidimetry, alkalimetry, oxidation, reduction and precipitation methods. Application of these are made as the student advances in the stages of his work.

206. Electrochemistry. Junior Year. Second Term. Four Weeks. Five Hours a Week.

A laboratory course designed to acquaint the student with the quantitative determination of metals electrolytically, utilizing the stationary and rotating electrodes and other modifications of modern practice.

207. Technical Analysis. Junior Year. Seventeen Weeks. Six Hours a Week.

Special problems of current industrial practice are attacked. In this connection, the analysis of iron, steel, coal, water and gas are taken up.

208. Organic Chemistry. Junior Year. Thirty-four Weeks. Three Hours a Week.

Part I.—A course of lectures and recitations in which the general principles and theories of Organic Chemistry are treated with special reference to the Aliphatic Series. Attention is constantly drawn to such specific compounds as are of technical, medicinal, or theoretical importance.

Part II.—A lecture and recitation course, in which the Benzene Series is treated. As in Part I., the scientific development of the subject is always accompanied by demonstrations.

209. Organic Practice. Senior Year. Two Terms. Twelve Hours a Week.

The student is made familiar with the operations and apparatus involved in organic work, such as fractional distillation, extraction, crystallization, steam distillation, determination of melting and boiling points, and with various methods of preparation (etherification, saponification, nitration, sulphonation, diazotization, etc.) He prepares a prescribed number of typical organic products of synthetic and commercial interest. Accompanying this synthetic feature, the analytic methods (qualitative and quantitative) peculiar to organic chemistry are taken up and thoroughly mastered.

210. Chemical Technology. Junior Year. Second Term. Senior Year. First Term. Two Hours a Week.

This course consists of lectures and recitations upon the more important technical chemical processes. Much attention is given to the general operations common to many industries and to the details of various types of apparatus used for carrying on the processes of crushing, lixiviation, filteration, distillation, etc. Charts, models, and a large collection of samples are employed as aids.

211. Physical Chemistry. Senior Year. Two Hours a Week.

In this course the fundamental laws and theories of chemistry are studied from the standpoint of their historical development, together with the discussion of the principles and applications of thermo-chemistry. Chemical dynamics and statics and the modern theories of solution are discussed, reference being continually made to original literature.

Laboratory work includes vapor density and molecular weight determinations according to the classical methods, etc.

212. **Seminar Students** of the Junior and Senior Years meet in informal conference with the instructors and discuss prepared papers and reviews of selected topics from current chemical literature.

213. **Special Lectures** by practicing industrial chemists and engineers will be arranged for to be given at stated periods.

214. **Inspection Visits** to local and neighboring establishments will help to familiarize the students with the actualities of chemical industry.

220. **Mineralogy. Sophomore Year. First Term. Two Hours a Week.**

A course of lectures and recitations is given on general and special mineralogy. The crystallographic, physical and chemical properties of the more important minerals are dwelt upon at length. Laboratory work, in which crystallographic models and natural crystals are put into the hands of the student, supplements the lectures. Other minerals are given for identification, thus bringing him into contact with a wide range of material. The College museum mineral collection is always open to students.

221. **Geology. Sophomore Year. Second Term. Two Hours a Week.**

The principles of dynamic, structural, physiographical and historical geology are presented in a series of lectures and recitations, supplemented by specimens furnished by the College Museum.

230. **Carpentry and Wood-Turning.**

The object of the work is a thorough training in the adjustment, use, and sharpening of the ordinary wood-working tools. The exercises in carpentry include sawing, planing, chiseling, including chamfering, grooving, and plain moulding work; framing, including tenoning, splicing, mortising, and fitting braces; use of moulding planes; nailing, dove-tailing; gluing, and the proper use of sandpaper.

The exercises in Wood-Turning include systematic instruction in the use of the wood lathe in center and chuck turning and careful training in the use of turning tools, such as gouges, turning chisels, nosing tools, right and left side tools, parting tool, calipers and dividers.

231. **Patternmaking.**

Under this subject the student is taught the construction from working drawings of patterns for some machine involving the operations of laying up. gluing, turning, carving and making core boxes.

232. **Forging.**

This course includes instruction in the building and care of fires, heating, drawing, forming, bending and twisting, upsetting while bending, upsetting for square corners, punching, bolt-making, chamfering, welding, the making and use of heading tools, chain making, the making and fitting of braces, the construction of hooks and ring bolts, riveting and the use of threading tools.

233. Foundry Work.

The exercises include instruction in tempering the sand and making green moulds for small work. This is followed by exercises in core-making and an explanation of loam work. Machine, floor, and sweep moulding are briefly discussed. Students are likewise taught to attend the cupola furnace.

234. Machine Shop Practice.

The sudents are given instruction and practice in chipping chamfers, flat, concave and convex surfaces, keyways and "chipping to shoulder." This is followed by exercises in filing, beginning with the names and classification of files, a discussion of the "cut" tooth angles, and uses of each form, and methods of holding and operating. The instruction covers methods of holding and "laying out" work, cross filing, draw filing, free-hand gling, production of flat surfaces, surfaces at right angles, parallel surfaces, chamfering, filing to template, use of the hack-saw, fitting, including parallel, drive and slide fits, finishing and polishing.

Chipping and filing are followed by metal turning, including lathe work, drilling, planing and milling.

300. Stereotomy. Sophomore Year. Second Term. Three Hours a Week.

In this course the student is taught to apply the principles of Descriptive Geometry to the making of drawings for masonry structures such as piers, culverts, intersecting arches and walls, abutments, etc.

301. Stresses. Junior Year. First Term. Six Hours a Week.

Under this heading is included a study of the fundamental principles governing the distribution of stresses in the different members of framed structures subjected to known external loads; the investigation of roof and bridge trusses for the purpose of determining their probable load, and finally the determination of the maximum stress and distortion in the different members due to such loads.

302. Graphic Statics. Junior Year. Second Term. Five Hours a Week.

This course deals with the graphical method of determining stresses in structures and the accompanying deformation.

303. Railroad Engineering. Junior Year. First and Second Terms. Five Hours a Week.

This course includes class room recitations, field practice and drawing room work. The class room work covers a description of the various methods of railroad location, the mathematics of curves and the computation of earthwork.

The field work consists of a complete railroad survey. In the drawing room the student prepares the necessary maps and profiles of the location survey, earthwork diagrams, mass diagrams, and switch layouts.

304. Railroad Engineering. Senior Year. First Term. One Hour a Week. Second Term, Three Hours a Week.

This course includes lecture and drawing room work in organization, construction and maintenance, methods of handling earth and rock, tunneling, track laying, design of yards, street railways, etc.

305. Electrical Engineering Laboratory. Junior Year. First and Second Terms. Three Hours a Week.

A course of laboratory exercises designed to familiarize the student with the elements of technical measurements and with the characteristics and operation of the ordinary types of electrical machinery.

306. Hydraulics. Junior Year. Second Term. Five Hours a Week.

Deals with the fundamental principles of hydrostatics and hydrodynamics together with some of their applications to general hydraulics. Some of the topics discussed are: fluids and their properties; pressure, conditions of equilibrium; fluids in motion; discharge from orifices, flow over wires and through pipes; flow of water in open channels; energy and reaction of jets; pressure of water on curved vanes, and the essential principles of hydraulic motors.

307. Practical Astronomy and Geodesy. Junior Year. Second Term. Four Hours a Week.

In this course are treated the figure of the earth, methods of conducting a geodetic survey, including the measurement of base lines, triangulation, precise leveling, and methods of determining azimuth, latitude, longitude and time.

308. Prime Movers. Senior Year. First Term. Two Hours a Week. Second Term. Four Hours a Week.

Includes a descriptive and critical treatment of power-plant equipment and operation.

309. Masonry. Senior Year. First Term. Five Hours a Week.

This course includes a study of foundations in different soils, description of various classes of masonry and their uses in arches, dams, footings, buildings, bridge abutments and piers, retaining walls and culverts. Considerable prominence is given to reinforced concrete. Much of the time is devoted to the designing and preparation of plans for various masonry structures.

310. Theory of Structures. Bridges and Similar Structures. eSnior Year. First and Second Terms. Eight Hours. a Week.

Discusses the methods of making beams, columns, and ties from the structural materials; the combination of these elements to form buildings, bridges, viaducts and cranes. In the drawing room the student prepares strain sheets, general and detail plans, bills of materials and estimates. During the second term a study is made of standpipes, high office buildings, arches, cantilevers, continuous suspension and movable bridges, and the stresses to which they are subjected.

311. Hydraulic and Sanitary Engineering. Senior Year. First Term, One Hour a Week. Second Term, Four Hours a Week.

This course deals with the practical application of theoretical mechanics to water, sewerage, water power, and irrigation. Under the heading of sanitary engineering are studied the various problems involved in street cleaning, garbage collection and disposal, and other topics relating to public health.

312. Highway. Engineering. Senior Year. Second Term. One Hour a Week.

This course covers the location, construction and maintenance of highways, together with the construction and maintenance of street pavements.

313. Mechanical Laboratory. Junior Year. First Term. Four Hours a Week. Senior Year, First Term, Six Hours a Week; Second Term, Seven Hours a Week.

Use and calibration of important measuring instruments. Tests on elements of machines and tests involving pressure and motion of gases and liquids. Investigation of complete machines and appliances involving pressure and flow of water, gas, air and steam. Combustion, heat transmission and the mechanical treatment of steel.

330. Steam Engineering. Junior Year. First Term. Three Hours a Week.

The subject begins with the study of the Zeuner and Bilgram diagrams, with the application of these diagrams to simple slide valves, and gradually embraces the analysis and synthesis of flat, piston, unbalanced, single-ported, and multiported valves, with fixed, shifting and swinging eccentrics; the study of theoretical indicator cards for simple and compound engines, valve ellipse, valve and piston velocity diagrams, link motions, radial gears, Corliss and other trip gears. Moreover, the work covers the analysis of steam distribution in various types of engines, embracing a thorough

discussion of the force involved in the transmission of power from piston to shaft, with a view of determining the weight of fly-wheel for a desired steadiness of motion; fly-wheel design for various purposes; the theory and practice in the design and operation of Corliss, throttling and shaft governors, together with a brief discussion of other methods of governing.

331. Engine and Boiler Design. Junior Year. First Term. Six Hours a Week.

The work includes the complete analysis and design in detail of a high speed center crank engine with a swinging eccentric, a similar design of the valve gear and cylinder for a single eccentric Corliss engine, and the details of the Stephenson link motion as applied to a passenger locomotive; the design of a Corliss engine; the graphical analysis of the forces transmitted from piston to crank shaft; the design of a shaft governor; the design of a return tubular boiler with setting.

332. Metallurgy of Iron. Junior Year. First Term. One Hour a Week.

The theory and practice of iron and steel making; discussing ores, fuels, slags, chemical reactions, and the technical and practical conditions involved in the manufacture of pig iron, wrought iron, malleable iron and various classes of steel.

333. Steam Power Plants. Junior Year. Second Term. Four Hours a Week.

A critical study of steam boilers and furnaces, boiler room equipment, steam engines, steam turbines and condensers. Choice of proper power plant to meet required conditions.

334. Gas Power Plants. Senior Year. First Term. Two Hours a Week.

A critical study of gas producers, gas engines, oil engines and accessory equipment.

335. Dynamics of Machines. Senior Year. First Term. Two Hours a Week.

A study of the stresses set up by impact and inertia, as also of vibration and critical speeds.

336. Power Machinery. Senior Year. First Term. Eleven Hours a Week. Second Term, Eleven Hours a Week.

The methods of designing the parts of engines, boilers, turbines and pumps with regard to strength, rigidity, efficiency, wear and cheapness of production and operation. During the second term the student is taught the design and analysis of compete machines and appliances such as engines, ammonia compressors, boilers, pumps, turbines, etc.

337. Hydraulic Motors. Senior Year. Second Term. Two Hours a Week.

A study of impulse wheels and reaction turbines with reference to their proper construction, regulation and testing, and to the various sources of losses in their operation.

338. Rapid Production Machinery. Senior Year. Second Term. One Hour a Week.

A study of lathes, automatic screw machines, milling machines, planes, drills and precision grinders, as also a study of the most economical speeds at which to run tools under varying conditions of material, cut and feed.

339. Pumps and Compressors. Senior Year. Second Term. Two Hours a Week.

In this course are treated the theory, design and construction of reciprocating and centrifugal pumps, blowers and compressors.

340. Heating and Ventilating. Senior Year. Second Term. One Hour a Week.

A study of the various methods of heating and ventilating with due regard to their hygienic value. Investigation of the heat losses in buildings, as also the methods of utilizing the waste heat from power plants for heating purposes.

HIGH SCHOOL AND BUSINESS DEPARTMENTS

Faculty

Rev. Bernard P. O'Reilly, S. M.
President

Rev. Joseph A. Tetziaff, S. M
Vice-President

Bro. Louis Reimbold, S. M.
Fourth Year High School
Physics, Geometry, History

Rev. Clement Wulf, S. M.
Latin, English

Bro. Theodore Pluemer, S. M.
German, Librarian

Bro. William Beck, S. M.
Botany, Zoology

Rev. John Rauscher, S. M.
Third Year A

Bro. John Gilbride, S. M.
Third Year B

Bro. William Wohlleben, S. M.
Chemistry

Bro. Matthias Haas, S. M.
Chemistry, Geometry

Bro. Lawrence Drufner, S. M.
Second Business

Bro. William Haebe, S. M.
First Business

Bro. Michael Grandy, S. M.
Second Year A

Bro. Alphonse Mueller, S. M.
Second Year B

Bro. Thomas Price, S. M.
First Year A

Bro. Frank Noeth, S. M.
First Year B

Bro. John Wuertz, S. M.
First Year C

Bro. John Gareis, S. M.
Librarian

Bro. Thomas Seebald, S. M.
Bro. John Hock, S. M.
Bro. George Schneider, S. M.
Religion

Carl Mettler
Physical Instructor

HIGH SCHOOL DEPARTMENT

FIRST YEAR

First Term

	Periods
Religion	3
English	5
English Literature	2
German	5
Civil Government	3
Algebra	5
Physical Geography	4
Drawing, Penmanship	2

Second Term

	Periods
Religion	3
English	5
English Literature	2
German	5
*Civil Government	3
Algebra	5
Physiology	4
Drawing, Penmanship	2

SECOND YEAR

First Term

	Periods
Religion	3
Rhetoric, Classics	4
History	2
German	5
Latin	7
Algebra	4
Zoology	4

Second Term

	Periods
Religion	3
Rhetoric, Classics	4
History	2
German	5
Latin	7
Algebra	4
Botany	4

THIRD YEAR

First Term

	Periods
Religion	3
Rhetoric, Classics	4
Latin	5
German	5
History	2
Geometry	5
Chemistry	4
Laboratory Practice	2

Second Term

	Periods
Religion	3
Rhetoric, Classics	4
Latin	5
German	5
History	2
Geometry	5
Chemistry	4
Laboratory Practice	2

FOURTH YEAR

First Term

	Periods
Religion	3
English	4
Latin	5
German	5
History	2
Geometry	4
Physics	4
Physical Laboratory	2

Second Term

	Periods
Religion	3
English	4
Latin	5
German	5
History	2
Geometry	4
Physics	4
Physical Laboratory	2

*Optional, Irish History, 2 periods.

N. B.—Students that attain a satisfactory average in Physical Training are awarded one-fourth credit each year.

Subjects of Instruction

CHRISTIAN DOCTRINE

I Year High School. Deharbe's Large Catechism. Two Periods a Week.

End of Man; Faith, Its Necessity and Qualities; the Twelve Articles of the Creed; the Commandments; Love of God; Love of Self and Neighbor; the Decalogue.

II Year High School. Deharbe's Large Catechism. Two Periods a Week.

Review of the Commandments of God; Commandments of the Church; Sin; Virtue; Grace; Actual and Sanctifying Grace; the Seven Sacraments; the Holy Sacrifice of the Mass; Indulgences; the Sacramentals; Prayer; the Lord's Prayer; the Angelical Salutation; Daily Prayers; the Rosary; Manner of Serving at Mass. Ecclesiastical Year—the Seasons and Festivals.

III Year High School and I Year Business. Deharbe's Full Catechism. Two Periods a Week.

The Commandments; the Love of God; Christian Self-Love, and Love of Our Neighbor; the Decalogue: Veneration and Invocation of the Saints; the Commandments of the Church; Sin; Virtue and Christian Perfection; Grace; Sacraments; the Real Presence; the Mass; Indulgences; Sacramentals; Prayer; Religious Practices and Ceremonies.

IV Year High School and II Year Business. Deharbe's Full Catechism. Two Periods a Week.

End of Man; Faith; God; His Attributes and Perfections; the Trinity; the Creation and Government of the World; the Angels; Our First Parents and Their Fall; Jesus Christ; the Messias, True God and True Man; the Incarnation; Divine Maternity of the Blessed Virgin; the Passion, Death, and Resurrection of Jesus Christ; the Judgment; the Holy Ghost; the Church and Its Marks; Papal Infallibility; the Four Last Things.

Detailed study of the Mass; Sacred Vessels; Vestments, etc.; Sacramentals; Festivals; the Divine Office; Vespers, Compline, Benediction of the Blessed Sacrament; the Liturgical Year.

CHURCH HISTORY

By Rev. B. J. Spalding.

I Year High School. Two Periods a Week.

First Epoch. From Foundation of the Church to Reign of Constantine (A. D. 3-312); Early Church; the Ten Persecutions; the Apologists; Heresies; Progress of the Church.

SECOND EPOCH. From Conversion of Constantine to Fall of the Western Empire (A. D. 312-475). Constantine the Great; Julian the Apostate; Invasion of Barbarians; Heresies —Arianism, Nestorianism; Doctors; Saints and Councils; Monasticism in the East and West.

II Year High School. Two Periods a Week.

THIRD EPOCH. From the Downfall of the Western Empire to the Coronation of Charlemagne (475-800). Conversion of Barbarians, Franks, Visigoths, Anglo-Saxons, Lombards, Teutonic Tribes, Mohammedans; Heresies in the East—Eutychianism, Monothelitism, Iconoclasts; the Church and Civilization; Popes; Bishops; Monachism; St. Benedict.

FOURTH EPOCH. From the Restoration of the Western Empire to Gregory VII (800-1073). The Church in the Central and Western Europe; Conversion of Northern and Eastern Nations of Europe; the Greek Schism; Feudalism and Investitures.

FIFTH EPOCH. From Gregory the Great to Boniface VIII (1073-1294). Palestine Under the Mohammedans, the Crusades; Military Orders; Gregory VII; the Papacy and the Empire; Mendicant Orders; Universities.

III Year High School. Two Periods a Week.

SIXTH EPOCH. From Boniface VII to the Rise of Protestantism (1294-1517). Ecclesiastical Tribunals; the Albigenses; the Inquisitions; the Action of the Temporal Supremacy of the Popes; the Great Schism of the West; Councils; Heresies; Church Architecture; the Arts; Literature and Science.

SEVENTH EPOCH. From the Rise of Protestantism to the Treaty of Westphalia (1517-1648). Martin Luther; Thirty Years' War; Spread of Protestantism; Calvinism; Huguenots; Massacre of St. Bartholomew; John Knox; Mary, Queen of Scots; Henry VIII; Effect of Protestantism in England; Elizabeth; James I; Gunpowder Plot; Council of Trent; Religious Orders; Jesuits; Decline of Protestantism; Discoveries; Missions in Africa; India; Japan; China; America.

IV Year High School. Two Periods a Week.

EIGHTH EPOCH. From the Treaty of Westphalia (1684) to the present day. Church and Monarchies; Louis XIV and the Church; the Church and Spain; the Church and Austria; infidelity in Europe; the French Revolution; Effort to annihilate the Church; Napoleon and Pius VII; Revival of Religion; the Church since the Revolution; the Redemptorists; Missions in Europe, the East, Africa, Oceanica, in South and Central America; the Church in the United States.

ENGLISH

I Year High School. Five Periods a Week.

Stebbins: Progressive Course in English; First Year. Practice in composition every week.

Classics:

(*a*) A thorough knowledge of the subject-matter, form, and structure of:

Irving, *Legend of Sleepy Hollow;* Lamb, *Tales from Shakespeare* (2); Hawthorne, *Tanglewood Tales* (2); Dickens, *Christmas Carol* (Scrooge and Marley); Longfellow, *Evangeline;* Goldsmith, *Deserted Village;* Crawford, *Marzio's Crucifix.*

Detailed written work is required.

(*b*) A general knowledge of the substance of six books selected from the following groups:

Group 1. (Two to be selected.) *Life of Henry Clay, Life of Washington, Washington and His Generals, Autobiography of Franklin.* Group 2. (one to be selected.) Cooper, *The Spy;* Dickens, *Christmas Carol.* Group 3. (One to be selected.) Hawthorne, *Tanglewood Tales;* Wm. C. Bryant, *Thanatopsis and Other Poems.* Group 4. (One to be selected.) Lamb, *Tales from Shakespeare;* Irving, *Sketch Book.* Group 5. (One to be selected.) Irving, *Alhambra and Conquest of Granada.*

Written work is required.

Literature: Anglo-Saxon Period; Norman Period; Age of Chaucer; English, Irish and American Literature.

Text: Murray.

II Year High School. Four Periods a Week.

(*a*) A thorough knowledge of the subject-matter, form and structure of:

Longfellow, *Evangeline;* E. A. Poe, *Gold Bug;* Samuel T. Coleridge, *Rime of Ancient Mariner;* William Shakespeare, *Merchant of Venice; Washington's Farewell Address;* Sir Walter Scott, *Lay of the Last Minstrel;* Cardinal Wiseman, *Fabiola.*

Detailed written work is required.

(*b*) A general knowledge of the substance of six books selected from the following groups.

Group 1. One of Hawthorne's novels—*House of Seven Gables* suggested. Group 2. Thackeray, *Vanity Fair,* or *The Virginians.* Group 3. Goldsmith, *Vicar of Wakefield.* Group 4. One of Cooper's novels—*Last of the Mohicans, Prairie, The Pioneers,* or *The Spy* suggested. Group 5. Longfellow's

Hiawatha; Browning's Poems—*Pied Piper* suggested; Cowper —*John Gilpin's Ride* suggested. Group 6. Byron, *Prisoner of Chillon; Mazeppa.*

Written work is required.

Note.—The elements of English Versification are taught in this class.

III Year High School. Three Periods a Week.

Stebbins: Progressive Course in English; Third Year.

Composition and easy writing.

Classics.

(*a*) A thorough knowledge of the subject-matter and structure of: Bryant, *Thanatopsis and Other Poems;* Webster, *First Bunker Hill Oration;* Byron, *Prisoner of Chillon and Mazeppa;* Shakespeare, *Julius Caesar;* Arnold, *Sohrab and Rustum;* Macaulay. *Essay on Johnson;* Newman, *Callista.*

(*b*) A general knowledge of the substance of six books selected from the following groups: Group 1. Wiseman, *Fabiola;* Crawford, *Marzio's Crucifix.* Group 2. *Waverly, Ivanhoe, Talisman.* Group 3. One of Webster's Speeches. Group 4. Lamb, one of the Essays of Elia. Group 5. Cooper, *Two Admirals, Prairie, Last of the Mohicans.* Group 6. Whittier, *Snowbound;* Scott, *Lady of the Lake, Lay of the Last Minstrel.*

Written work is required.

IV Year High School. Three Periods a Week.

Stebbins: Progressive Course in English; Fourth Year.

Weekly practice in Composition and Essay Writing.

Classics:

(*a*) A thorough knowledge of the subject-matter and structure of: Milton, *Lycidas and Comus;* Addison, *De-Coverly Papers;* Milton, *L'Allegro and Il Penseroso;* Shakespeare, *Macbeth;* Carlyle, *Essay on Burns*; Ruskin, *Sesame and Lilies;* Miles Keon, *Dion and the Sybils.*

Detailed work is required.

(*b*) A general knowledge of the substance of six books selected from the following groups: (Written work is required.) Group 1. Poe's Tale and Poems. Group 2. One of Thackeray's Novels. Group 3. One of Scott's Novels. Group 4. One of Dickens' Novels. Group 5. One of the following: a. Bulwer-Lytton, *Last Days of Pompeii;* b. Jane Porter, *Scottish Chiefs.* Group 6. One of the following; a. Tennyson, *Enoch Arden;* b. Scott, *Lady of the Lake.*

GERMAN

I Year High School. Five Periods a Week.

Dreyspring's Cumulative Method of Learning German. The Alphabet, Indefinite and Definite Articles; Pronouns; Prepositions governing the Dative Cases; Adjectives; Nouns; Declension of Nouns, Pronouns; Conjunction of sein, haben, werden; the Conjunction.

Text: Dreyspring's Cumulative Method to page 111.

Reading: *Bunte Geschichten.* Erna M. Stoltze.

II Year High School. Five Periods a Week.

Intensive study of verb form. Review of weak declension, strong declension; remaining parts of speech.

Text: Dreyspring's Cumulative Method from page 115 to the end.

Reading: *Grimm's Maerchen.* James Kern.

III Year High School. Five Periods a Week.

German Composition and Letter Writing.

Classics: *Selected Poems, Schiller's Lied von der Glocke, Der Taucher.*

IV Year High School. Five Periods a Week.

German Composition.

Classics: *Wilhelm Tell, Jungfrau von Orleans, Hermann und Dorothea.*

LATIN

I Year High School. Seven Periods a Week.

Latin forms, inflections; conjugations; syntax.

Text: *Foundations of Latin.* Bennett.

Reading: *Historia Sacra; Phaedrus.*

II Year High School. Five Periods a Week.

Latin Grammar; intensive study of verb forms and syntax.

Text: Bennett's Latin Grammar and New Latin Composition. Part First.

Caesar, Gallic War; Viri Romae.

III Year High School. Five Periods a Week.

Latin Grammar; Latin Composition.

Text: Bennett's Latin Grammar and New Latin Composition. Part Second.

Cicero's Orations Against Catiline; Selections from Ovid.

IV Year High School. Five Periods a Week.

Latin Grammar; Latin Composition.

Text: Bennett's Latin Grammar and New Latin Composition. Part Third.

Virgil, Books I. II. and VI.; Pro Archia.

MATHEMATICS

I Year High School. Algebra. Five Periods a Week.

Algebraic Symbols and Expressions; Fundamental Operations; Factoring; Equations of One and Two Unknown quantities; Involution and Evolution; Quadratic Equation.

Text: *Milne's Elements of Algebra.*

II Year High School. Algebra. Five Periods a Week.

Review of previous course with intensive study of factors; H. C. F. and L. C. M.; Fractions; Radicals; Theory of Exponent; Binomial Theorem; Ratio and Proportion; Quadratic Equation.

Text: Milne's High School Algebra.

III Year High School. Geometry. Five Periods a Week.

Plane Geometry. The Line, Polygon, Circle; Proportion; Similar Figures; Areas of Polygons; Area of Circle. I., II., III., IV., and V. Books.

Text: *Wentworth's Plane and Solid Geometry.*

IV Year High School. Geometry. Four Periods a Week.

Solid Geometry. Lines and Planes; Dihedral Angles; Polyhedral Angles; Polyhedrons, Cylinders and Cones; Spheres; Surfaces and Volumes; Problems. VI., VII., and VIII. Books.

Text: *Wentworth's Plane and Solid Geometry.*

SCIENCE

I Year High School. a. Physiography. Four Periods a Week.

THE EARTH. A Planet; Movements; Magnetism; Internal Heat; Volcanoes; Earthquakes.

THE LAND. Arrangement of Land Masses; Forms of Land; Relief Forms; Islands:

THE WATER. Properties of Water; Waters on Land; Drainage; Continental Drainage; The Sea; The Oceans; Waves and Tides; Currents of the Sea.

THE ATMOSPHERE. Physical Properties; Climate; Winds; Storms; Moisture of the Air; Hail, Snow, and Glaciers; Electrical and Optical Phenomena.

LIFE. Relations between Plants and Animals; Range of Plants and Animals; Man; Geographical Distribution of Labor.

b. Physiology. Four Periods a Week.

Study of the Cell; Digestion; Foods; The Blood and Its Circulation; Bleeding Wounds and Diseases; Respiration; Ventilation, Heat and Clothing; The Skin and Kidneys; The Nerves and Spinal Cord; The Brain; The Senses; Bones; Muscles.

Text Books: Maury, Physical Geography; Overton, Physiology.

II Year High Shool. a. Botany. Four Periods a Week.

The Seed and Its Germination; Storage of Food in the Seed; Movements, Development, and Morphology of the Seedling; Roots; Stems; Buds; Leaves; Flowers; Eulogy of Flowers; Fruit; Ecology of Fruits.

The Classification of Plants; Types of Cryptograms.

Lectures supplemented by laboratory work.

b. Zoology. Four Periods a Week.

Protozoa; Porifera; Coelenterata; Echinodermata; Vermes; Protozoa Arthropoda; Vetebrata.

Lectures supplemented by laboratory work.

Text-books: Bergen, Elements of Botany; Burnet, School Zoology.

III Year High School. Chemistry. Six Periods a Week.

a. This is a course of experimental lectures with recitations on general and descriptive Chemistry. The following topics are treated: Atomic Theory; Theory of Solutions and Ionization; Acids, Bases, Salts, Neutralization; Reversible Reactions and Chemical Equilibrium; Valance; Molecular and Atomic Weights; Chemical Formulas, Equations, and Calculations; Periodic Law; the Elements that enter into the typical chemical compounds; the organization of the Carbon Compounds and a brief discussion of some of the more common and typical representatives of Organic Chemistry. The instruction is given in such a manner as to bring home to the mind of the student the industrial and economic phases of Chemistry.

b. Laboratory Practice is taken weekly by the individual student and a Laboratory Report of his work is submitted for criticism every week.

c. Chemical Problems bearing on the subjects under discussion are given and solved, one hour per week.

Text: Morgan and Lyman, "Chemistry, An Elementary Text Book;" Morgan and Lyman, "A Laboratory Manual in Chemistry."

IV Year High School. Physics. Six Periods a Week.

Fundamental Units; Force of Motion; Pressure of Liquids; Pressure of Air; Molecular Motions; Molecular Forces; Thermometry; Work and Mechanical Energy; Work and Heat Energy; Change of State; Magnetism; Electricity; Static and Current Dynamic Electricity; Sound; Light.

Lecture course is accompanied by a laboratory course embracing about thirty-five experiments, illustrating and demonstrating the most important laws of physics.

Text-book: Miliken and Gale's Laboratory Manual.

HISTORY

I Year High School. United States History. Two Periods a Week.

A topical review of the work of previous grades. The Revolutionary War; The Adoption of a New Form of Government; Establishment of the New Government; Growth in Territory and Population; Progress in Education and Literature; Financial Questions; Troubles with Foreign Countries; Slavery; Civil War.

These topics should be made the subjects of composition after due preparation.

Civil Government. Two Periods a Week.

Meaning of Term: Different Forms of Government: Colonial Governments; Constitution of the United States; United States Government, Legislative, Executive, and Judicial Branches; Noteworthy Days and Events of Catholic History in the United States.

Text: Forman.

Irish History. Two Periods a Week.

Geography of Ireland; Pre-Christian Period; Laws, Customs and Antiquities of the Milerians. St. Patrick; The Danes; Norman Invasion; The Campaign under Bruce; The Geraldines; The Beginning of Religious Persecutions. The National Confederacy; Cromwell and the Cromwellians; The Penal Code; The Struggle for Legislative Independence; Catholic Emancipation; Home Rule and the Land Question; Education.

II Year High School. Two Periods a Week.

First Semester—Ancient History; Egypt; Assyria and Babylon; Media and Persia; Phoenicia and Carthage; Greece; Macedonia; States Formed from the Dismemberment of Alexander's Empire.

Second Semester—Roman History: The Monarchy (B. C. 753-509); The Republic (B. C. 509-29); The Empire, Pagan and Christian (B. C. 29, A. D. 476).

Text: Meyers.

III Year High School. Two Periods a Week.

First Semester—Great Invasions and Fall of the Empire of the West; History of Gaul, Great Britain, Spain, Italy; The Church and the Barbarians; Ascendency of the Carlovingians; Mohammedanism; The Church and Christian Civilization; The Empire and Feudalism; Germany and Italy; Struggle of the Papacy and the Empire.

Second Semester—Crusade in the East; Crusade in Europe, France, England and Ireland; The Great Schism of the West; Hundred Years' War; Germany, Switzerland, and Italy; The Greek Empire and the Ottoman Turks.

Text: Meyers.

IV Year High School. Two Periods a Week.

First Semester—Decline of Feudalism; The Protestant Reformation; Religious Wars in France; Thirty Years' War; Louis XIV., The Two Revolutions.

Second Semester—The First French Republic; The Empire Catholic Emancipation and Reform in Great Britain and Ireland; The Eastern Question in Europe; The Revolution of 18448; Russia and the Eastern Question; Recent Changes in Italy; France, Spain and the Minor States of Europe; The British Empire.

Text: Meyers.

BUSINESS DEPARTMENT

SECOND YEAR

First Term	Periods
Religion	3
English	2
Arithmetic	5
Commercial Geography	1
Business Law	2
Bookkeeping	5
Phonography	5
Typewriting	5

Second Term	Periods
Religion	3
English	2
Arithmetic	5
Commercial Geography	1
Business Law	2
Bookkeeping	5
Phonography	5
Typewriting	5

FIRST YEAR

First Term	Periods
Religion	3
English	2
Arithmetic	5
Commercial Law	2
Bookkeeping	5
Phonography	5
Typewriting	5

Second Term	Periods
Religion	3
English	2
Arithmetic	5
Commercial Law	2
Bookkeeping	5
Phonography	5
Typewriting	5

Daily Practice in Penmanship.

SUBJECT OF INSTRUCTION

CHRISTIAN DOCTRINE

I Business

First Business—As outlined for Third Year High School, p. 106.

Second Business—As outlined for Fourth Year High School, p. 106.

ENGLISH

1. Business Orthography. (*Gregg's Business Speller.*) Oral, written, and typewritten. Spelling of words selected from business and every-day life. Orthography of words that occur in every day's lessons. Study of synonyms, homonyms, and autonyms. Dictation. Study of the diacritical marks, abbreviations, initials, and the proper use of the dictionary.

II Business

Business Orthography. Program as outlined for I. Business.

Business English and Essentials of Letter Writing.

I Business

Grammar: Choice of words; false syntax; punctuation; capitalizing, paragraphing.

3. Composition: Plan and outline. Subjects, descriptive, reproductive, narrative. Exercises in business and social letter writing.

Text: Gregg's Business English.

II Business

1. Business Correspondence. Letter Writing. Principles of rhetoric reviewed; phraseology; punctuation; capitalization; paragraphing; style and its essential qualities; figures.

2. Composition: Plan and outline. Subjects; descriptive; reproductive; narrative; argumentative. Essays, summaries, criticism, detailing. Exercises in formulating letters, telegrams, cablegrams. Study of the Postal Service and postage rates.

PRACTICAL BUSINESS ARITHMETIC

MOORE AND MINER

I Business

Review of Fundamentals; Average; Checking Results; Decimal Fractions; Factors; Divisors and Multipliers; Common Fractions; Aliquot Parts; Bills and Accounts; Denominative quantities; Practical Measurements; Percentage as applied in Bookkeeping; Daily Practice in Rapid Calculation.

II Business

Percentage; Commercial Discounts; Gain and Loss; Marking Goods; Commission and Brokerage; Property Insurance; State and Local Taxes; Customs; Duties; Interest; Bank Discount; Partial Payment; Banker's Daily Balances; Stocks and Bonds; Life Insurance; Partitive Proportion and Partnership; Storage; Daily Practice in Rapid Calculation; Use of Adding Machine; Method of Proving Results by Check Numbers.

COMMERCIAL GEOGRAPHY

GANNET-GARRISON-HOUSTON

I Business

COMMERCIAL CONDITIONS: Climate and Topography; Influence of the Climate and Topography on Life; Social Conditions; Manufacturing Facilities; Transportation Facilities; Financial Conditions; Soil and Its Cultivation; Vegetable Products; Animal Products; Mineral Products.

UNITED STATES: Vegetable Products; Animal Products; Mineral Products.

UNITED STATES: Manufacturers, Transportation, Commerce and Population; Vegetable Products; Animal Products; Mineral Products. Manufacturers, Transportation, Commerce and Population of Alaska; Canada; Newfoundland; Danish America; Mexico; Central America; West Indies; Europe; Asia; Africa; Australia; New Zealand; Oceanica and South America.

ELEMENTS OF BUSINESS LAW

GREGG

I Business

PRELIMINARY TOPICS: Business Law; Property; Courts; Procedure; Formation of Contracts; Agreement; Competent Parties; Consideration; Form Writing; Seal; Legality of Object; Reality of Consent.

OPERATIVE AND DISCHARGE OF CONTRACTS: Liabilities and Rights of Third Parties; Assignment of Contracts; Discharge of Contracts; Discharge in Bankruptcy; Particular Contracts Concerning Goods.

BAILMENT OF GOODS: Bailments Solely for Benefit of One Party; Mutual Benefit Bailments; Special Cases of Bailment for Keeping of Transportation; Cases Not Strictly of Bailment.

INSURANCE CONTRACTS: Life; Property; Marine; Policies; Warrants.

PARTICULAR CONTRACTS CONCERNING CREDITS: Credits and Loans; Interest; Usury; Banks; The Contract of Guaranty; Security.

NEGOTIABLE INSTRUMENTS: Nature and Characteristics; Form; Negotiation; Maker's and Acceptor's Contract; Drawer's and Endorser's Contract.

II Business

THE CONDUCT OF BUSINESS THROUGH REPRESENTATIVES: Agents; Principal and Agent; Appointment of Agents; Obligations of Principal and Agent to Each Other; Liabilities of Principal to Third Parties; Liability of Agent to Third Parties; Master and Servant; Inquiry to Servants.

BUSINESS ASSOCIATIONS: Partnerships; Joint Stock Companies; Corporations.

PROPERTY IN LAND AND MOVABLES: Real Property; Estates of Real Property; Lands; Its Constituents; Growths and Fixtures; Relative Right to Adjoining Owners; Transfer of Interests in Lands; Mortgages and Liens; Landlord and Tenant.

PERSONAL PROPERTY: Classification; Kinds and Estates; Acquisition and Transfers.

BOOKKEEPING

I Business

DOUBLE ENTRY: Journalizing; Posting; Trial Balance; Balance Sheet; Loss and Gain Account; Daybook Journal; Forwarding; Writing and Filing of Business Forms; Exercises in Writing Checks; Notes and Drafts; Practical Business Method of Computing Interest and Discount; The Check Book; Cash Book, Bill Book, and Sales Book; Directions for Taking Inventories and Finding Errors in Trial Balances; Six Column Journal.

SINGLE ENTRY: Journal and Cash Book; Monthly Statements; Changing from Single to Double Entry.

SUPPLEMENTS (*Southwestern Publishing Co.*) Part I. (*Ellis Publishing Co.*) Interstate Exercises.

II Business

Modern Business Bookkeeping.

Special Column Journal for Retail Grocery Business; Retail Coal Business; Wholesale and Retail Lumber Business; Shipments and Consignments; Jobbing; Manner of Detecting and Correcting Errors; Verifying Inventories of Text Books: Forwarding Accounts; Check Numbers; Opening of New Books and Transferring Accounts from Old to New; Installment Houses and Agents; Commercial Agencies; Cost Ac-

counting; Averaging; Manufacturing; Joint Stock Companies; Changing from a Proprietorship to a Joint Stock Company; Banking; Clearing House; Department Stores; Loose Leaf Ledger; Typewriter Bookkeeping (*Brown*).

SUPPLEMENTARY: *Marshall's Drills.* Advanced Exercises from *Ellis*, Higher Accounting (*Goodyear-Marshall* and *Moore & Miner*). Complete Filing Case for Card System. Manipulation Register (Late Model 4-Drawer).

PHONOGRAPHY

GREGG

I Business

Simple forms of characters; simple word-signs and phrase-writing. Blended consonants; compound words; the abbreviating principle. Dictation from First and Second Readers.

II Business

Review of first nine (9) lessons. Omission of vowels; joined prefixes, disjointed prefixes; joined affixes; disjointed affixes. Analogical Abbreviation; advanced phrase-writing; initials. Taking down of dictated business letters and speeches. Daily practice for speed and rapid transcription.

TYPEWRITING

UNDERWOOD, MONARCH, L C. SMITH, REMINGTON, SMITH PREMIER, ROYAL.

I Business

Scientific Touch Typewriting Manual, Bliss Co.

Touch system, keyboard, sentences, tabulating.

II Business

Arithmetical Exercises. Addressing envelopes, letter writing; transcribing shorthand notes taken in dictation. Duplicating by Letter Press; manifolding by carbon; stenciling for Underwood Duplication. Designing and display forms. Arithmetical exercises. Proper care of machines, and adjusting of ordinary difficulties.

OFFICE TRAINING

GREGG

Office Training is designed to give the students the knowledge and training that employers designate as "experience."

It contains twelve sections, each of which deals with a distinct and vital phase of office work.

PENMANSHIP

I Business

The Ideal Method of Muscular Movement Business Writing.

II Business

The Ideal Method of Muscular Movement Business Writing.

Use of Automatic Shading Pen.

ELEMENTARY DEPARTMENT

Faculty

Rev. Bernard P. O'Reilly, S. M.

President

Bro. George L. Ley, S. M.

Principal

Bro. John Voelker, S. M.

Eighth Grade

Bro. Edwin Weigand, S. M.

Seventh Grade

Bro. Joseph Mueller, S. M.

Sixth Grade

Bro. John Gareis, S. M.
Bro. Leonard Mattis, S. M.

Religion

Carl Mettler

Physical Instructor

ELEMENTARY DEPARTMENT

SUBJECTS OF INSTRUCTION

CHRISTIAN DOCTRINE

Fifth Grade

Catechism of Christian Doctrine. Plenary Council of Baltimore, No. 2.

Sixth Grade

Catechism of Christian Doctrine. Plenary Council of Baltimore, No. 2 reviewed). Liturgy; Sacred Vessels; Vespers; Benediction; Vestments; Blessed Ashes; Palms; Use of Holy Water; Blessed Candles; Processions.

Seventh Grade

Catechism of Christian Doctrine. (Deharbe's Small Catechism). Ten Commandments as in Bible; Cardinal Virtues; Evangelical Counsels; Nine Ways of Being Accessory to Another's Sins; Sins That Cry to Heaven for Vengeance; Liturgy; Gospels of Sundays and Festivals; Principal Feasts.

Eighth Grade

Deharbe's Small Catechism reviewed. Liturgy; Manner of Serving at Mass; Articles Needed for and Ceremonies of All the Sacraments, especially Baptism, Extreme Unction, and Viaticum.

SACRED HISTORY

Fifth Grade

Old Testament. The principal events in the four epochs from Adam to Noah; Noah to Abraham; Abraham to Solomon; Solomon to Christ. Creation; Angels; Adam and Eve; Cain and Abel; Seth; Deluge; Babel; Abraham; Isaac; Jacob; Esau; Joseph; Moses; Josue; The Judges; Solomon; Roboam.

New Testament. The principal events in the four periods and further subdivision of the epochs by the aid of the to A. D. 33, The Public Life; Week of the Passion; The Glorious Life. See for reference the Teachers' Manual.

Sixth Grade

Old Testament. Review of the principal events of the Old Testament as in the preceding grade, but with more detail and further subdivision of the epochs by the aid of the mnemonic word "Ajenamsec."

New Testament. Work of the preceding grade studied with more detail, introducing maps of Palestine and of the holy places.

Seventh Grade

Old Testament. Review of the work of the preceding grade, with intensive study of the period 26 B. C. to the birth of Christ; The Kingdom of Israel; the Prophets; Kingdom of Juda; Juda in Captivity; The Return from Captivity; Under the High Priests; Asmonean Dynasty; Herodean Dynasty.

New Testament. The First, Second and Third Journeys of Our Lord about the Sea or Lake of Galilee. Map-drawing in connection with it.

Eighth Grade

Review of the work of the preceding grades, with a special study of Jerusalem; Jerusalem Before Christ; Jerusalem at the Time of Christ; The Church of God Prefigured in Sacred History; Foundation of the Catholic Church.

ENGLISH

Fifth Grade

(*a*) *Reading.*
(*b*) *Word Study.*
(*c*) *Language and Composition.*
(*d*) *Literary Selections for Explanation and Study.*
(*a*) *Reading.* Benziger's IV. Reader.

Supplementary reading is to be found in the lists of literary selections for the class.

(*b*) *Word Study.*

1. Spelling.
2. Etymology. Selected lists of Prefixes, Suffixes, and Roots.
3. Phonics. Diacritical marks and use of dictionary.
4. Syllabication. Simple rules.

Text: Champion Speller.

(*c*) *Language.*

1. Synthesis of simple sentences. Topics to be chosen preferably from object lessons suggested by texts in reading Sacred History, United States History, Geography, and Nature Study.

Analysis of a simple sentence with reference to subject, predicate and copula, and possibly adjective modifiers.

2. Grammar. To distinguish nouns, pronouns, verbs without reference to mood or tense, and adjectives in a sentence. Rules and exercise with reference to singular and plural, masculine and feminine.
3. Punctuation.

Texts: Hoenshel's Grammar.

Sixth Grade

(*a*) *Reading,* Benziger's IV. Reader.

Supplementary reading to be found in the literary selections for this grade.

(*b*) *Word Study.*

1. Spelling words selected from the various text-books used in the class. List of words frequently misspelled. Review lists of common words. Exercises in synonyms. Train pupils to arrive at the meaning of words from the context.

Text: Champion Speller.

2. Phonics. Require lists of words to be marked diacritically. List of words whose pronunciation is to be sought. Geographical and historical names.

3. Etymology. Selected lists of Prefixes, Suffixes, and Roots.

Use of the dictionary in forming groups or family of words from the above.

(*c*) *Language and Composition.*

1. Synthesis of simple and complex sentences, introducing relative clauses, adjuncts, modifiers, phrases.

Analysis of simple and complex sentences.

2. Grammar. Nouns; kinds and properties. Personal pronouns; their person, number, gender, and case. Verbs; transitive and intransitive, mood (but not the subjunctive), tense, person and number. Adjectives: of time, place, and manner, comparison. Prepositions, Conjunctions, and Interjections.

3. Punctuation. Draw attention to the use of the period, the comma, colon, and semicolon, exclamation point, and interrogation point in the course of reading. Study a certain number of abbreviations.

4. Daily practice in the formation of simple and complex sentences upon topics suggested by the studies in reading, history, geography, and nature. Introduce letter-writing. Paraphrasing of literary selections studied in class (second term).

Texts: Hoenshel's Grammar.

Seventh Grade

(*a*) *Reading.*
(*b*) *Word Study.*
(*c*) *Language and Composition.*
(*d*) *Literary Selections for Explanation and Study.*

(*a*) *Reading.* Benziger's IV. Reader.

The Polite Pupil. Insist upon Chapters V. and VI.

(*b*) *Word Study.*

1. Spelling. Selected words from text-books used in class. Exercises in synonyms, homonyms, and antonyms.

2. Phonics. Diacritical marks. Lists of geographical and historical names.

3. Etymology. Selected lists of Prefixes, Suffixes, and Roots.

Use of dictionary in connection with the forming of groups or family of words with the elements above.

4. Punctuation and Capitals.

(*c*) *Language and Composition.*

Synthesis and analysis of simple, complex, and compound sentences, with modifiers, adjuncts, and phrases.

Grammar. Formal grammar on the basis of Hoenshel's grammar, with the most important rules of Syntax.

Composition. Oral and written reproduction of stories from Sacred History; topics suggested by Geography, United States History, Literary Selections used in class. Letter writing.

Paraphrasing of certain literary selections.

Texts: Hoenshel's Grammar.

Eighth Grade

(*a*) *Reading.*

(*b*) *Word Study.*

(*c*) *Language and Composition.*

Classics: Seven American.

(*d*) *Literary Selections for Explanation and Study.*

1. Spelling. Selected words from the text-books used in the class. Exercises in synonyms, and antonyms.
2. Phonics. Diacritical marks.
3. Etymology. Selected lists of Prefixes, Suffixes, and Roots.
4. Punctuation and Capitalization.

(*c*) *Language and Composition.*

Daily practice in synthesis and analysis of simple, complex, and compound sentences, with modifiers, adjuncts, phrases.

Grammar. Formal grammar on the basis of Hoenshel's Advanced Grammar. Intensive study of the verb.

Composition. Oral and written reproduction stories from Sacred History; topics suggested by Geography, United States History and Literary Selections committed to memory.

Texts: Hoenshel's Grammar; Seven American Classics.

UNITED STATES HISTORY

Fifth Grade

A few leading facts of the general history. Selected lives of great men in early American History. Lives, adventures, and events in United States History.

Topics for history should be chosen in connection with studies in geography. No topic should be considered completed until the pupils have written a composition upon the same.

Sixth Grade

Discoveries and explorations. Settlements and Inter-Colonial Wars.

I. *The New World: Discoveries, Explorations, and Claims.*

Extent of knowledge of the world before the discovery of America. Motives which prompted European Explorations, English, French, and Dutch Discoveries and Explorations.

II. *Colonial Development.*

Southern Colonies, New England Colonies, Middle Colonies.

III. *Inter-Colonial Wars.*

Causes: King William's War, Queen Ann's War, King George's War, French and Indian War. Conditions of the Colonies after the wars.

Map Drawing.

Seventh Grade

The Revolution, Establishment of the Federal Government, Growth of the Nation.

I. *The Revolution.*

Causes of the Revolution. Beginning of the War. (1775-1776.) New England and Canada Campaigns of 1776-1778, principally in the Middle States. Campaigns of 1778-1781, principally in the Southern States. Treaty of Peace. 1783.

II. *Organization of the Government of the United States.*

III. *The Development of the Union.* 1789-1845.

Maps to be constantly used in connection with lessons in history.

Eighth Grade

Development of the Nation, continued (1845-1909). The Tariff Question and Growth of Sectional Feeling. Inventions and Improvements and their effects. The Civil War.

Text: Benziger's History, revised.

GEOGRAPHY

Fifth Grade

First Term.

Dayton. General talks about the people, animals, and plants of our town and other countries. The earth on which we live. Representations of the earth's surface. The globe representing the earth. Climate of different parts of the earth. North America: Outlines, boundaries, land and water divisions, climate, productions, inhabitants, political divisions.

Second Term.

The United States. Boundaries, general outline, size, land and water, divisions, climate, soil productions, vegetation, animals, minerals, inhabitants, their occupation, important cities.

Sixth Grade

First Term.

Short review of general questions of the preceding grade. Latitude and Longitude.

Study of South America. Position; boundaries; physical features; climate; inhabitants; races of men; their modes of life and occupation; commerce; political divisions, important cities.

Second Term.

Europe and Asia.

Countries, positions, cities, rivers, mountain ranges.

Seventh Grade

Mathematical Geography. Shape and Size of the Earth, Motions, Latitude and Longitude, Change of Seasons, the Zones, Globes and Maps.

Physical Geography. Surface, Land and Water Formations, Winds, Climate, Plants, and Animals.

Political Geography. Man, Religion, Industrial Pursuits, Governments, etc.

Above topics studied in connection with extensive studies of North America, United States, Canada, Mexico, Central America.

Text-book: Maury's Manual of Geography, Revised. (To page 76).

Eighth Grade

Extensive study of South America, Europe, Asia, Africa, Australia, and Oceanica, on same plan as for Seventh Grade.

Maury's Manual, Revised. (Page 76 to the end.)

ARITHMETIC

Fifth Grade

Review the multiplication tables. Continue drills in the four fundamental operations. Work for accuracy rather than rapidity. United States Money. Concrete problems. Written analysis of problems involving the fundamental operation. Factors of numbers less than 100. G. C. D. and L. C. M. by the method of factoring Denominate numbers. The most important units of length, surface, volume, weight, and time. Tables of surface and volume are to be deducted and practically from tables of length. Insist upon the written analysis of the problem. Problems in Mental Arithmetic should precede every lesson in Arithmetic.

Sixth Grade

Short review of some of the work of the preceding grade.

Simple fractions. Addition and subtraction of fractions. Multiplication and division of fractions. Concrete problems involving the above. Insist upon written analysis of solution. Decimal fractions. Bills and accounts. Area of surfaces, rectangles, paralellogram, and triangle. Problems involving such surfaces. Area of land estimated in acres. Volumes of the cube and prism.

Seventh Grade

Review fractions and mensuration of the preceding grade.

Conversion of fractions and mensuration of the preceding grade.

Conversion of fractions to decimals and inversely. Percentage. Commercial Discount. Profit and Loss Commission. Simple Interest. Circumference and area of the circle. Surface and volume of the cylinder.

Eighth Grade

Review fractions and mensuration of the preceding grades.

Latitude and Longitude. Review some of the more important problems of percentage. Ratio and proportion. Analytical method. Power and roots.

Texts: Hamilton's Elementary and Complete Arithmetic.

PENMANSHIP AND DRAWING

Penmanship.

Palmer Method used in all grades.

Drawing.

Augsburg's Standard Course.

Fifth Grade, No. 4; Sixth Grade, No. 5; Seventh Grade, No. 6; Eighth Grade, No. 7.

PREFECTS

Bro. Thomas Seebald, S. M.
First Division, Resident Students

Bro. John Hock, S. M.
Second Division, Resident Students

Bro. George Schneider, S. M.
Third Division, Resident Students

Bro. Leonard Mattis, S. M.
Nazareth Hall, Resident Students

Bro. Theodore Pluemer, S. M.
Non-Resident Students

Bro. John Gareis, S. M.
St. Joseph Hall

Bro. Geo. Weis, S. M.
Assistant Prefect

MUSIC DEPARTMENT

BRO. LOUIS VOGT, S. M.
Violin, Orchestra

BRO. THOMAS POITRAS, S. M.
Organ, Piano, Singing

LOUIS KELLY
Piano

FRED MOEHRING
Cornet

COLLEGE PHYSICIANS

F. C. GRAY, M. D., office hours, 1-3 p. m., 7-9 p. m.
D. G. REILLY, M. D., office hours, 8-9 a. m., 1-3 p. m., 7-8 p. m.
G. A. HOCHWALT, M. D., office hours, 8-9 a.m., 2-3 p.m., 7-8 p.m.
A. J. MOORMAN, M. D., office hours, 8-10 a.m., 1-3 p.m., 7-8 p.m.
HORACE BONNER, M. D., office hours, 9-12 a. m., 1:30-4:30 p. m.
Specialist in Eye, Ear, Nose and Throat Diseases
DR. F. S. KELLER, Dentist.
DR. LEON DEGER, Dentist.
JOHN RANLY, M. D., Eye Specialist.

ANNUAL SCHOLARSHIPS

The Cappel Scholarship

Harry F. Cappel, '98 and Carl L. Cappel, '03 share the honor of having contributed the first annual Scholarship to St. Mary College. The Cappel Scholarship was established in 1907 and is awarded to the highest honor graduate of the High School Department desiring to enter the College of Science or the College of Engineering. The winner of this scholarship may use it during the four years of his college work.

The St. Mary College Scholarships

The Board of Trustees of St. Mary College is the donor of several Day Student Scholarships, one being awarded to every parish of the city in favor of a deserving student who desires to study for the priesthood. These scholarships, now thirteen in number, were established in 1908.

Barry S. Murphy Scholarship

Barry S. Murphy, '79 is the donor of a Day-Student Scholarship to be applied to a student for the holy priesthood.

NEEDS OF THE COLLEGE

The Board of Trustees and Officers of St. Mary College are the frequent recipients of unsolicited words of praise for the extraordinary progress made at the college along practically all lines during the past years. We are growing, it is true, but not in proportion with the needs of the present day. The new Normal School, which was completed in June, 1915, at Mount St. John, will enable us to accommodate a large increase of boarding students; but this increase, added to the present attendance, will accentuate some of the needs that seem imperative even at the present. We desire our former students and friends to know what these needs are, feeling confident that they will follow the example given by so many non-Catholics who have endowed their institutions with buildings, professorships and scholarships.

Some of the immediate needs are:

A Science Hall Hall for the College of Engineering.
A Library Building and bequests for the Library.
A Gymnasium and Natatorium.
An Auditorium.

When bequests are designated for the use of any department or any other special purpose, the Board of Trustees will respect the wishes of the donors and apply them to such purposes.

FORM OF BEQUEST

I give and bequeath to the Board of Trustees of St. Mary College, of Dayton, Ohio, the sum of .....Dollars, as a fund, to be called "..... Fund," to leave and hold the same absolutely for use of St. Mary College, Dayton, Ohio, in the establishment of .....

Designate purpose: "Science Hall," "Library Building or Bequest for Library," "Gymnasium and Natatorium," "Auditorium," "Professorships" or "Scholarships."

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St. Mary College

DAYTON, OHIO

Collegiate Department

College of Arts, Letters, Science
College of Engineering

Pre-Medical Department
High School Department
Business Department
Elementary Department

A new Dormitory Building was opened September 7, 1911. All private rooms are equipped with every convenience—electric light, steam heat, hot and cold water and pure spring water. Bath rooms are installed on every floor.

St. Mary has all that a college of today calls for, viz: Halls, modern in every detail; complete equipment, (laboratories, libraries, museum, etc.,) a picturesque park, extensive grounds and large campuses to accommodate the entire student body.

For bulletin and illustrated literature apply to

Rev. Bernard P. O'Reilly, S. M., President

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St. Mary College BULLETIN

Series XXX Number 1

COLLEGE CATALOG

1918 - 1919

Sixty-Eighth Year

JANUARY 1919

UNIVERSITY OF ILLINOIS LIBRARY
UNIVERSITY OF ILLINOIS
APR 8 1919
Administrative Library

PUBLISHED QUARTERLY BY ST. MARY COLLEGE
DAYTON, OHIO

NEEDS OF THE COLLEGE

The Board of Trustees and Officers of St. Mary College are the frequent recipients of unsolicited words of praise for the extraordinary progress made at the college along practically all lines during the past years. We are growing, it is true, but not in proportion with the needs of the present day. The new Normal School, which was completed in June, 1915, at Mount St. John, enables us to accommodate a large increase of boarding students; but this increase, added to the present attendance, will accentuate some of the needs that seem imperative even at the present. We desire our former students and friends to know what these needs are, feeling confident that they will follow the example given by so many non-Catholics who have endowed their institutions with buildings, professorships and scholarships.

The most imperative needs of St. Mary College are:

An Auditorium.
A Gymnasium and Natatorium.
A Library Building and bequests for the Library.
A Science Hall for the College of Engineering.

When bequests are designated for the use of any department or any other special purpose, the Board of Trustees will respect the wishes of the donors and apply them to such purposes.

COLLEGE CALENDAR

1918-1919

Sept. 4—Registration: High School, Business and Elementary Departments.
Sept. 5—High School, Business and Elementary Departments open.
Sept. 17—College of Arts and Letters and Engineering and Pre-Medical Departments open 8 a. m.
Sept. 30—Annual Retreat begins
Nov. 1—All Saints. No Classes.
Nov. 28—Thanksgiving Day. No Classes.
Dec. 5, 6, 7—Triduum in honor of the Immac. Conception.
Dec. 8—Immaculate Conception.
Dec. 9-16—Alumni Diamond Medal Contest.
Dec. 1 and 15—The Elocution Contests.
Dec. 21—Christmas Holidays begin.
Jan. 7—Classes resume, 8:45 a. m.
Jan. 13—Holy Name Service.
Jan. 27—First Term Examinations begin.
Jan. 30—Second Term begins.
Feb. 22—Washington's Birthday. No Classes.
Mar. 3-10—Alumni Diamond Medal Contest.
Mar. 17—St. Patrick's Day. Half-holiday.
Mar. 23—Dr. D. G. Reilly Oratory Prize Contest.
Apr. 16—Easter Holidays begin.
Apr. 25—Classes resume, 8:45 a. m.
May 27, 28, 29—Triduum in honor of the Bl. Sacrament.
May 29—Ascension. No Classes.
May 30—Decoration Day. No Classes.
June 2—Examinations, Collegiate Classes.
June 5—Examinations, Fourth Year High and Second Business.
June 9—Examinations, remaining Classes.
June 12—Commencement.

1919-1920

Registration Day, Monday, September 7.

High School, Business and Elementary Departments open Tuesday, September 8, 9:45 a. m.

College of Arts, Letters and Engineering and Pre-Medical Departments open Tuesday, September 23, 8 a. m.

ST. MARY COLLEGE

ST. MARY COLLEGE BULLETIN

Series XXX

Number 1

ST. MARY COLLEGE

A Boarding College for
Young Men and Boys

Established in 1850 by the Society of Mary

COLLEGE CATALOG

1918-1919

Sixty-Eighth Year

I. COLLEGIATE
- ARTS
- LETTERS
- SCIENCE
- PRE-MEDICAL
- ENGINEERING

II. HIGH SCHOOL

III. BUSINESS

IV. ELEMENTARY

PUBLISHED QUARTERLY BY ST. MARY COLLEGE
DAYTON, OHIO

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of the

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ST. MARY COLLEGE

DAYTON, OHIO

GENERAL STATEMENT

St. Mary College is a boarding and day-college for young men and boys, under the direction of the Society of Mary. It was incorporated in 1878, and empowered to confer degrees by an act of the General Assembly of the State of Ohio.

Visitors arriving at the Union Station can take a south-bound Oakwood car at the corner of Main and Fifth streets and proceed directly to the College.

The extensive grounds of over 50 acres are located in South Park, a remarkably picturesque spot within the city of Dayton, overlooking the Miami Valley. St. Mary has all that a college of today calls for, viz., dormitory building with private rooms; halls, modern in every detail; complete equipment for all departments (laboratories, libraries, museums, etc.); a picturesque park, a natatorium, a gymnasium and auditorium, club rooms, and campuses of over ten acres to accommodate the entire student body.

A new Dormitory Building, with private rooms, is equipped with every convenience—electric light, steam heat, hot and cold water, and pure spring water. Bath rooms are installed on every floor. No expense is spared to make the rooms as comfortable and home-like as psosible.

Another building, Nazareth Hall, has been remodeled to accommodate the resident and non-resident students of the Elementary Grades.

INSTRUCTION

Departments There are five distinct Departments of Studies at St. Mary: The Collegiate Department, the Pre-Medical Department, the Preparatory or High School Department, the Business Department and the Elementary Department. The studies in all Departments, excepting the Collegiate and Pre-Medical, are prescribed and not elective.

Collegiate Department The Collegiate Department comprises the College of Arts, Letters and Science, and the College of Engineering.

The College of Arts, Letters and Science purposes to offer to the student the time and opportunity to cultivate further and to bring to maturity the qualities of mind and heart and will that have been developed to a great extent in

the Preparatory and High School Departments. To attain this aim a greater latitude is permitted in the selection of studies. The studies of the Collegiate Department are divided into four groups, leading to the degrees of Bachelor of Arts, Bachelor of Letters, Bachelor of Science and Bachelor of Engineering. The selection of studies is made with the assistance of an Advisory Board, and with the approval of the Prefect of Studies. Christian Doctrine, Philosophy, and English are considered fundamental studies for all degrees. Latin and Greek are characteristic studies for students wishing to obtain the degree of Bachelor of Arts. Latin, History, and Modern Languages are characteristic studies for candidates aspiring to the degree of Bachelor of Letters. The Sciences, Mathematics, and Physics, or Chemistry, or Biology, are characteristic studies for the degree of Bachelor of Science. In addition to this there is granted more or less selection in each group, especially in the Senior Year. For a detailed account of studies offered in the Collegiate Department, see the Program of Studies.

The College of Engineering, organized September, 1910, is designed to satisfy an oft-repeated desire to fill a long-felt need. This College is a natural outgrowth of the science courses which have always received considerable attention at St. Mary.

No effort is spared to acquaint the student thoroughly with the fundamental principles and to give him a good insight into the theoretical analysis of engineering problems. While emphasis is laid on fundamental theory, continual attention is paid to the solution of practical problems for the purpose of imbedding principles and illustrating the lines of their general industrial application. At the same time students are trained to habits of initiative and industry, and will thus be well prepared to adapt themselves readily to actual conditions and requirements, and to grappie with new problems that from time to time confront the professional engineer.

Lecture and text-book courses are accompanied throughout by quantitative work in well-equipped laboratories.

Frequent visits are made to accessible engineering establishments to make the student thoroughly conversant with the trend of current engineering practice. For such purposes Dayton offers exceptional facilities owing to the great number and variety of engineering plants located in the city and vicinity.

Lectures by engineers in active service will help to keep the student in touch with professional work.

For detailed information see the Program of Studies.

Pre-Medical Department The Pre-Medical Department was organized to accommodate students desiring to prepare for Medical Colleges. The curriculum of two years comprises studies required for admission to the best Medical Colleges of the Middle-West.

High School Department The course of study in the Preparatory or High School Department extends through four years, and is equivalent to the usual High School course given in American High Schools. It provides a systematic instruction in Christian Doctrine, English Composition, Rhetoric, Literature, English Classics, Latin, a modern language (German, French, or Spanish), Algebra, Geometry, Physical Geography, Physiology, Botany, Zoology, Chemistry, Physics, Civics, Ancient, Mediaeval and Modern History, and Elocution. (For a detailed account of the courses, see the Program of Studies.) A certificate of graduation from the Preparatory Department, or its equivalent, is required for entrance into the Freshman Class of the College.

Business Department The Commercial or Business Department is intended for those who cannot command the time, or have not the inclination for a thorough High School and Collegiate training. While the curriculum does not develop the mental faculties so fully and so harmoniously as the more thorough and systematic courses in the classics and sciences offered by the Collegiate Department, nevertheless it supplies all requirements of a good business education. The curriculum comprises the study of Religion, a thorough course in English, including Grammar, Rhetoric, Literature, English and American Classics, Business Writing, Composition, General History, Business Arithmetic, Bookkeeping, Commercial Law, Commercial Geography, Phonography, Typewriting, and Elocution. The course lasts two years, and is open to students who possess the necessary preliminary instruction. For a detailed account of studies, refer to the Program of Studies.

Elementary Department The Elementary Department accommodates students of the fifth, sixth, seventh, and eighth grades of grammar school. It provides a sound training in Christian Doctrine, Reading, Penmanship, Grammar, Arithmetic, United States History, Geography, Elocution, Drawing and Etiquette. The completion of the elementary course, or of the eight years' course in a parochial or public school is required for entrance into the Preparatory or High School Department. For detailed account of studies, see the Program of Studies.

Session The academic year consists of only one session, beginning in the first week of September, on the date specified on index page, and closing in the middle of June.

It is very desirable that all students enter on the first day of the session; however, applicants are received at any time during the academic year and charged for the remainder of the session.

Candidates for admission are required to present testimonials of good moral conduct.

Rank In the Elementary, Preparatory and Business Departments the rank of each student is determined by daily marks, weekly competitions, and half-yearly examinations. A record of the standing of each student in scholarship and conduct is kept in the registers of the College, and a copy is sent to the parents and guardians at the end of each month.

In the Collegiate Department there are written tests once a week, or at least once every two weeks, according to the nature of the subject, supplemented by oral recitations, at the discretion of the professors.

Bi-monthly records of these tests and of written work (tasks) are kept by the professors.

The monthly standing of the students is publicly announced at the beginning of the month.

After each semester there are written examinations on the program of the last half-year, supplemented by oral examinations, if demanded by the nature of the subject.

An average of 70 per cent. for the written work, written tests, and the semester examinations is required to receive credit for any study.

Medals Medals and honors for scholarship are awarded at the Annual Commencement and published in the July issue of **"The Exponent,"** the College Magazine.

Gold medals for excellence in class studies are awarded in the High School and Business classes.

Excellence in class studies is determined by the monthly marks, weekly competitions, and half-yearly examinations.

A minimum average of eighty-five per cent. is required to win a gold medal.

Honors for single studies are determined by competition only.

A mention for First Honors is given to students that have attained an average of ninety per cent. A mention for Second Honors is given to those students that have attained an average of eighty-five per cent.

Prizes are awarded to the students preparing for the B. A. and B. L. degrees as follows:

Freshman—Excellence in English Studies.
Sophomore—Excellence in Latin Studies.
Senior—Excellence in Philosophical Studies.

Prizes are awarded to students preparing for the Engineering degree as follows:

Freshman—Excellence in Mathematics and Chemistry.
Sophomore—Excellence in Mathematics and Physics.
Junior—General Excellence in Chemical, Electrical and Mechanical Engineering.
Senior—General Excellence in Chemical, Electrical and Mechanical Engineering.

Following are the prizes and medals donated by generous friends of the College:

Two gold medals for Excellence in Irish History, in the Preparatory Department, donated by the Ladies' Auxiliary of the Ancient Order of Hibernians and the Ancient Order of Hibernians.

The Rev. Bernard F. Kuhlman Prize for American History. The Rev. Bernard F. Kuhlman, D. D., Catholic Chaplain at the National Military Home, is the donor of an annual cash prize of $25 for the best essay in American History. The subject is assigned by the reverend donor. The contest is open to all students of the Preparatory and Collegiate Departments. The essay must show original research work and throw light on subjects of American History, especially such as are disputed today.

Four gold medals for Elocution are awarded in public contest in the High School Department, one to each year of High School.

A gold medal for Excellence in English Studies, Freshman Letters Class, in memory of George A. Pflaum, Dayton, O.

A gold medal for Excellence in Mathematics and Physics, donated by the Hon. Thomas J. Coughlin, '93, of Cleveland, O.

A gold medal for Excellence in Christian Doctrine, in the Collegiate Department, donated by William H. Holters, of Covington, Ky.

A gold medal for Excellence in Theodicy, in the Senior Class, donated by the Rev. F. Joseph Kelly, '90, of Dayton, Ohio.

The Alumni Association is the perpetual donor of a gold medal to be awarded to a member of the graduating class for proficiency in English composition, both prose and verse.

The competitions for the medal are held in December and March and comprise each time an essay and a piece of verse. Students who have distinguished themselves in composition during the year, and who have been active contributors to "The Exponent" are eligible to compete.

The Harry C. Busch Excellence Prize. The Hon. Harry C. Busch, '96, attorney of Cincinnati, is the donor of a cash prize of $20.00 in gold to the honor student of the Senior Letters Class, who at the time of graduation has the highest averages for Latin, Greek, English, and History for his entire Collegiate course.

Chicago Alumni Athletic Medal. The Chicago Alumni Association is the donor of a medal to be awarded the student excelling in all the Varsity sports at the College.

The Dr. D. G. Reilly Oratory Prizes. Dr. D. G. Reilly, a former college physician, established an Oratory Endowment Fund of $1000.00, the annual proceeds of which realize three prizes of $30.00, $20.00 and $10.00 in cash to be awarded to the three most successful participants in the annual Oratorical Contest. All students of the Collegiate Department are eligible to compete.

The Rev. Charles Polichek Philosophy Prize. The Rev. Charles Polichek, pastor of the Holy Name Church, Dayton, Ohio, is the donor of a cash prize of $30.00 in gold, to be awarded to the two honor students in Philosophy. The first prize is $20.00, the second $10.00.

The Rev. Charles Polichek Junior Engineering Excellence Medals. The Rev. Charles Polichek is also the donor of these medals, to be awarded to the Excellence students of the Junior Engineering Classes.

The Rev. Charles Polichek History Medal. The Rev. Charles Polichek is also the donor of a gold medal to be awarded to the Excellence student in History of the Collegiate Department.

The Rev. Daniel A. Buckley Latin Medal. The Rev. Daniel A. Buckley, pastor of St. Raphael's Church, Springfield, Ohio, is the donor of a gold medal, for Excellence in Latin studies in the Sophomore Class.

The Rev. Charles Polichek Senior Engineering Excellence Medals. The Rev. Charles Polichek is the donor of three medals to be awarded to the Excellence students of the Senior Engineering Classes.

The Rudolph Wurlitzer Music Medals. Rudolph Wurlitzer of Cincinnati, Ohio, is the donor of gold medals for the Excellence student in Piano, and for the Excellence Student in Violin.

Students who enter the College after January 1 cannot compete for awards.

The boarding and day-students whose average monthly standing in conduct and application is 95 per cent., receive honors for good conduct at the Annual Commencement. If, at the time of graduation from the Collegiate Department, a boarding student has been awarded honors for four years, two of which immediately precede graduation, he is entitled to a medal for good conduct.

Promotions

Class promotions are determined at the close of the year by the result of the term examinations, by the monthly class percentages, and by the weekly competitions. The promotions are announced at the Annual Commencement.

Attendance at the courses is strictly enforced. A student who fails to attain ninety per cent. of the number of periods devoted to any one study cannot receive credit for that study.

A general average of seventy per cent. is required to receive credit in any study.

No student will be permitted to take part in athletic contests if he has not attained an average of seventy per cent. for his studies.

Degrees and Diplomas

A student of the Senior Class who, at Easter, has not attained an average of seventy per cent. for the monthly marks and the January Examination, cannot compete for graduation honors in the following June.

Upon the attainment of sixty-six points, and the recommendation of the faculty, the Board of Trustees will confer the degree of Bachelor of Arts, or Bachelor of Letters, or Bachelor of Science.

These degrees will be conferred according to the candidate's scholarship with the mention **summa cum laude**, or **magna cum laude**, or **cum laude.**

Upon the successful completion of one of the Engineering courses, the degree of Bachelor of Mechanical, Electrical, Chemical or Civil Engineering is awarded with the mention **summa cum laude**, or **magna cum laude**, or **cum laude.**

A diploma is awarded to students who have completed either the High School or the Commercial Course and have passed a satisfactory examination.

Libraries

Besides the College library, there is a circulating library in the study hall of each division of boarding students.

DISCIPLINE

Methods

The sole object of the College is to impart to boys and young men a thoroughly Catholic education. Its government is designed to continue the family life. In order to secure the regularity and assiduity that are indispensable to the success of any educational work, the students are uniformly held to strict obedience, diligent application, and blameless conduct. The discipline is conservative in character, and designed to train the students to habits of self-control and gentlemanly conduct. The manner of enforcing the regulations is firm, yet mild and parental, and appeals chiefly to the student's conscience and sense of honor. Convinced of the insufficiency of merely human means to insure the true education of mind and will and heart, the authorities of the College place their chief reliance for the success of their educational work on the influence of religious principles and practices. Hence, the doctrine and precepts of the Catholic religion are taught in all classes, and the exercises of religion hold a prominent place among the daily recurring events of school life.

Regulations

The boarding students form four distinct divisions—the First, the Second, the Third, and the Fourth. Each division has its own study hall, playground, and club room.

The correspondence of the students is controlled by the authorities. No printed matter is allowed to circulate among the students until it has been examined and approved.

The students are not allowed to leave the grounds without a written permit.

Leave of absence is granted for one day, on the last Sunday of each month, to those among the boarding students whose marks for class work and deportment during the preceding month are satisfactory, and whose parents or relatives live in the city of Dayton.

The weekly holiday is Thursday. Sunday and Thursday are the most convenient days of the week for visiting students.

A short vacation is granted during the Christmas season and at Easter. No students are kept during the summer vacation.

It is of the utmost importance that the students be present every day of the academic session. Hence they should be prompt to return at the close of the vacations.

The ordinary causes for dismissal are insubordination and bad conduct.

DAY STUDENTS

During recreation and study hours the day-students form separate divisions.

The day-students are required to be at the College at 8:15 a. m. They may take dinner at the College by paying a slight additional charge, or they may bring a lunch with them from home. Class hours close at 3:00 p. m.

The day-students are expected to devote at least two hours at home to their studies every day.

Cleanliness, regularity, and gentlemanly conduct on the way to and from the College, as well as faithful observance of regulations, will be exacted from the day-students.

The day-students are expected to attend religious services in the parishes to which they belong, and they are therefore not required to attend the exercises held in the College chapel on Sunday.

The day-students are strictly forbidden to perform any commission for boarding students.

NECESSARY EXPENSES

Matriculation Fee (payable on first entrance)	$ 5 00
Tuition, Board, Laundry, Library and Athletic Fees, Fee fro Admission to Lectures, Entertainments and Intercollegiate Games and Contests	350 00

PAYABLE IN ADVANCE, as follows:

On Entrance in September

Matriculation Fee (payable first year only)	$ 5 00
First Payment on Board, Tuition, and Laundry*	175 00
Deposit on Book and Stationery Account	10 00
Total	$190 00

On January 20

Board, Tuition, and Laundry*	$175 00

In this Second Payment must be included all Extra Expenses, such as charges for use of Laboratories, Music, etc., and any extra expenses the student may have incurred.

*Laundry in excess of a reasonable quantity will be charged extra at current prices.

OPTIONAL EXPENSES

PRIVATE ROOMS, PAYABLE IN ADVANCE	$ 80 00
	90 00
	120 00

When two or three students room together a fee of $55.00 is charged for each one.

Owing to the fact that the number of private rooms is limited, money will not be refunded if a student loses the privilege of his room. Exception is made to this ruling only in case of sickness.

Instrumental Music—

Piano with use of instrument, Grades A and B	$ 50 00
Grade C	55 00
Grade D	60 00
Violin (instrument furnished by pupil)	
Grades A and B	40 00
Grade C	50 00
Grade D	60 00
Orchestra or band membership—for music pupils—no charge	
For others	5 00
Artistic Drawing and Painting	20 00
Use of Office Appliances (Business Department)	10 00
Phonography (private lessons)	10 00

Laboratory Fees—High School Department

Botanical and Zoological Laboratory	$ 5 00
Chemical Laboratory	10 00
Physical Laboratory	10 00

Engineering Department

Physical Laboratory	$ 15 00
Chemical Engineering Laboratory	15 00
Electrical Engineering Laboratory	15 00
Mechanical Engineering Laboratory	15 00
Biological Laboratory	15 00
Mineralogical Laboratory	5 00
Mechanical Drawing	5 00
Machine Drawing	5 00
Surveying	5 00

Pre-Medical Department

Biological Laboratory	$ 15 00
Chemical Laboratory	15 00
Physical Laboratory	15 00

Rates of Day Students

Tuition rates for Day Students are payable half-yearly in advance, as follows:

Matriculation Fee (payable first year only)	$ 1 00
Elementary Department (per annum)	40 00
High School Department (per annum)	40 00
Business Course	40 00
Use of typewriter (per annum)	10 00
Collegiate Department (per annum)	60 00
Physical Culture	1 00
Laboratory and Graduation Fees—(as above).	
Dinner at the College (per month)	7 00

Graduation Fee

For all courses leading to Bachelor Degrees, $10.00; High School and Business Courses, $2.00.

Military and Physical Training Fees

Military Training	$3 00
Physical Training	1 00

REMARKS

Repairs of all kinds are extra charges.

Books and stationery can be purchased at the College at current prices.

The College will not provide a student with clothing or extras unless a sufficient sum of money for this purpose be deposited with the Treasurer.

No deduction is allowed for the Christmas or Easter holidays.

Pocket money may be deposited with the Treasurer, to be given as prudence may suggest or occasion may require.

The College will not hold itself responsible for any valuables, such as money, rings, watches, etc., unless these are deposited with the Treasurer.

All Drafts and Checks Should be Made Payable to St. Mary College.

No Student will be Registered for a New Scholastic Year Unless His Account for the Previous Year is Settled.

Honors of Graduation will not be Conferred Upon Students Whose Bills have not been Paid.

Interest will be Charged on Bills of Six Months' Standing.

WARDROBE

Each boarding student should come provided with the following articles:

3 Suits—two for daily wear, one for Sundays.
1 Gymnasium suit.
1 Overcoat.
3 Changes of summer underwear.
3 Changes of winter underwear.
6 Pairs of stockings or socks.
6 Shirts.
3 Suits of pajamas.
12 Handkerchiefs.
4 Towels.
4 Napkins.
3 Neckties.
3 Pairs of shoes.
2 Hats or caps.
Toilet articles.
1 Pair of gymnasium shoes.

A Students' Army Training Corps unit is established at St. Mary College. The War Department furnishes the members of the S. A. T. C. 1 overcoat, 1 service hat, 2 suits, 1 pair of leggings, 1 pair of shoes, 1 belt and 1 collar ornament.

It is not necessary to mark the articles of clothing, as they will be numbered at the college.

1917—REGISTER OF STUDENTS—1918

Abel, Herbert.....4th High
Abele, Russell.....2d Business
Abels, Leo.....1st Business
Agnew, Vincent.....3d High A
Aman, Andrew.....5th Grade
Amersbach, Joseph..2d High D
Anderson, Eugene..1st High A
Ashton, William....1st High C
Aufderheide, Maurice.2d High A
Azcarraga, Louis..1st Business

Bach, Joseph.....1st High B
Baczenas, Eugene.....4th High
Baker, Robert.....7th Grade
Balling, Joseph.....2d High A
Barman, Howard....Soph. Arts
Barrett, Edred.....5th Grade
Barrett, Lawrence..1st High B
Beck, Robert.....6th Grade
Beigel, Henry.....2d High A
Bentz, Lawrence.....6th Grade
Berghoff, Edward.....4th High
Bickford, Frank.....2d High A
Binger, Harry.....3d High A
Blackburn, Robert..1st High C
Blanchett, Edward..3d High B
Boesch, Horace....Fresh. Eng.
Boesch, William....Soph. Eng.
Boggan, Roy.....1st Business
Bomhard, Fred.....7th Grade
Bowman, Richard.....4th High
Boylan, Maurice.....4th High
Boyle, John.....8th Grade
Bradmiller, Lionel..1st High C
Breen, John.....4th High
Bremer, Bernard.....1st High
Brennan, Fred.....3d High D
Brink, Lester.....2d High D
Broerman, Frank..1st Business
Broerman, Robert....7th Grade
Brown, Ernest.....4th High
Brown, John.....1st High B
Brunner, Hubert....1st High C
Buerger, Adrian....Fresh. Eng.
Burgmeier, Norman..2d High B
Burke, Harry.....3d High B
Burkhardt, J. A.....2d High A
Burns, James.....2d High B
Burns, Robert.....2d High B
Busch, Eugene.....2d High D
Busch, Frank.....6th Grade
Bussinger, Albert....1st High B
Byrne, Herbert.....3d High A

Cahill, Matthew.....Soph. Eng.
Carlin, James.....7th Grade
Carlin, Vincent.....5th Grade
Carr, Francis.....4th Grade
Casey, Daniel.....2d High D
Casey, Thomas.....4th High
Castra, George de...2d High D
Castro, Manuel de..1st Business
Cavanaugh, Charles....1st Bus.
Celli, Hugh.....6th Grade
Chapin, William.....2d High B
Cleary, John.....8th Grade
Clendenin, Wm.....2d High D
Cloran, Martin.....3d High B
Coffield, James.....1st High D
Cole, Ferrel.....8th Grade
Collet, Edward.....8th Grade
Collins, Daniel.....Soph. Arts
Connelly, James....Fresh. Arts
Comer, Victor.....7th Grade
Comerford, Wm....1st High B
Conkle, Jack.....7th Grade
Conway, William...Fresh. Eng.
Corbett, Cletus.....6th Grade
Corbett, Gerald.....1st High B
Covert, George.....8th Grade
Crone, William....1st Business
Crowley, Alois.....Soph. Eng.
Crowley, J. L..Sen. Chem. Eng.
Cunningham, Paul...2d High C
Curtis, Walter.....Fresh. Eng.

Daley, Lawrence.....4th High
Dano, Leslie.....2d High A
Davis, John.....1st High A
Day, John.....8th Grade
Day, William.....6th Grade
Deckwitz, Carl.....Jr Eng..
Deddens, Joseph.....2d High D
Deddens, William..2d Business

Deery, Carroll.....1st High A
Deger, Richard.....4th High
Delscamp, R.....1st High B
Demann, Clemens.....Jr. Eng.
Demann, Harold.....2d High C
Demaro, Clancy.....3d High B
Derby, Clarence.....2d High B
Dewine, Paul.....3d High B
Dierkes, John.....7th Grade
Doerger, Edward...2d Business
Dolan, Leo....Fresh. Pre-Med.
Donaghy, Veeder.....4th High
Donegan, Joseph....1st High B
Donnelly, Arthur...2d Business
Donohue, Robert.....8th Grade
Donovan, George....2d High D
Donovan, Joseph.....8th Grade
Dooley, Albert.....1st High B
Dooley, Ralph.....1st High D
Dorfer, William....1st Business
Dorger, Raymond....3d High B
Doyle, Thomas.....7th Grade
Duell, John.....3d High A
Duemer, Arnold.....1st High B
Dunn, Eugene.....4th High
Dwyer, Edward.....4th High
Dwyer, Herbert.....2d High C

Eckerle, Adolph.....2d High D
Eckley, William....1st High A
Eckman, Lawrence...8th Grade
Edmondson, George...4th High
Ehret, Alvin.....1st Business
Eikenbary, Herbert.1st High A
Elardo, Frank.....4th High
Elder, Jerome.....1st Business
Emmerick, Stephen...4th High
Endrodi, Elmer.....5th Grade

Falkenbach, George.Fresh. Eng.
Fansher, John.....1st High D
Farley, Francis.....3d High A
Farrell, James.....5th Grade
Feichtmeier, Henry..6th Grade
Feldman, Walter.....6th Grade
Figgins, Alphonso....3d High B
Fillipowitz, Felix....3d High A
Finan, Joseph.....Soph. Arts
Fisher, Albert.....Soph. Arts
Fischer, Ambrose...1st High C
Fischer, Arthur.....7th Grade
Fitzpatrick, William.3d High A
Flaherty, Anthony...3d High B
Flanagan, Joseph.....4th High
Flinn, Hubert.....2d Business
Flood, Philip.....2d High A
Flynn, Joseph.....4th High
Focke, Carl.....2d High B
Focke, William.....1st High D
Freiberg, Albert.....1st High A
Freudenberger, A...Soph. Eng.
Frey, Anthony.....1st High D
Frischkorn, Wm.....2d High D
Fritch, Daniel.....1st Business
Fritz, William.....2d High B
Frohle, Paul.....7th Grade
Furderer, Lloyd.....2d High C

Gallagher, James..1st Business
Garrison, Russell.....St. Eng.
Gartland, Charles.....5th Grade
Gartner, Donald.....6th Grade
Gast, Millard.....1st Business
Genard, Alexis.....Fresh. Eng.
Gerlaugh, Edward....8th Grade
Gerspacher, George...6th Grade
Gerstner, Selby.....6th Grade
Gilligan, Eugene.....8th Grade
Gitzinger, John.....2d High C
Glaser, Joseph.....2d High C
Glynn, Lawrence....1st High A
Glynn, Robert.....1st High A
Goetz, Joseph.....7th Grade
Gorman, Raymond...Soph. Arts
Gottbrath, Joseph....2d High D
Gottron, Arthur.....2d Business
Gottron, Philip.....2d Business
Graham, Chester.....7th Grade
Graziani, Ben.....1st Business
Grimes, James.....7th Grade
Gross, Norwood.....1st High C
Grote, Paul.....1st High A
Gutierrez, Jose.....1st High B
Gwinner, Fred.....1st High A

Haas, Fred.....3d High B
Hagan, Frank.....1st High C
Hagan, Thomas.....2d Business
Hahn, Carl.....4th High
Haley, George.....6th Grade
Halpin, John.....Fresh. Eng.
Hammen, Joseph...1st Business
Hannahan, John.....Soph. Arts
Happensack, Ed....Soph. Arts
Happer, Thomas.....6th Grade
Harnish, Herman....3d High B

Harris, James.....7th Grade
Hart, James.....3d High B
Hartnett, James.....2d High B
Hatcher, James.....7th Grade
Healy, James.....1st High B
Healy, Joseph.....7th Grade
Heckman, Sylvester.1st High A
Hegman, Alvin.....2d High C
Heider, Frank.....Senior Arts
Heile, Edward.....2d High D
Heile, Marcellus....Fresh. Eng.
Helldorfer, Edgar..1st Business
Hellman, Norbert....1st High C
Helmig, Raymond....3d High A
Hemberger, Leo.....1st High C
Hendrik, Emery.....1st High C
Henne, Ralph.....6th Grade
Herr, Frank.....3d High B
Hess, Elmer.....Junior Eng.
Hess, Howard.....2d Business
Hess, Theodore.....2d Business
Hetzel, Howard.....Soph. Eng.
Higgins, Lowell.....8th Grade
Hieber, Clarence.....3d High B
Hils, Norbert.....2d High B
Hillery, Thomas.....3d High B
Hirsch, Herbert.....1st High C
Hochwalt, Carroll...Soph. Eng.
Hochwalt, George....Soph. Eng.
Hochwalt, Justin.....4th High
Hochwalt, Richard...1st High C
Hodapp, Albert.....2d High A
Hodgkin, Leonard...1st High D
Hoersting, A. J.....2d High A
Hofferbert, Michael.1st High B
Hollencamp, Francis..5th Grade
Holloway, Folger....1st High C
Holscher, Joseph...Fresh. Eng.
Holters, Joseph.....Junior Eng.
Holtvoigt, Hubert....2d High A
Holtvoigt, John.....2d High C
Horan, Edward.....Fresh. Eng.
Howlett, Hugh.....2d High D
Huber, Aloys.....4th High
Hughes, Bernard.....3d High B
Hughes, Edward.....5th Grade
Hughes, Elden.....3d High B
Hughes, Frank.....2d High A
Hughes, Merlin.....8th Grade
Humpert, Marcellus..2d High B
Hutson, Elwood.....5th Grade

Israel, Arnold.....7th Grade

Jacques, Norman.....2d High C
Jamison, Frank.....6th Grade
Janning, Joseph.....8th Grade
Janning, William.....2d High C
Johnson, William....2d High D
Johnston, Farrell.....2d High A
Johnston, William..1st Business
Jonas, Joseph.....1st High D

Kain, Cornelius.....1st High A
Karl, Wilbur.....2d Business
Kauflin, August.....3d High A
Kaullen, Fred.....Fresh. Eng.
Keenan, William....1st High A
Kehoe, Thomas.....4th High
Keller, Amer.....5th Grade
Keller, Joseph.....6th Grade
Kelly, Joseph.....6th Grade
Kelly, Malcolm.....2d High C
Kender, Stephen.....6th Grade
Kennedy, John.....1st Business
Kenney, Thomas....1st High C
Kent, Daniel.....8th Grade
Kersting, Alvin.....Senior Arts
Kessler, Emil.....Soph. Eng.
Keuping, Victor.....1st High C
Kilcoyne, Russell....3d High A
Killoran, John.....Senior Arts
Kinninger, Daniel.....4th High
Kintz, Don.....1st High B
Kinzig, Elmer.....2d High A
Kinsiz, Walter.....2d High A
Kipp, Calvin.....3d High B
Kirby, George.....4th High
Kissling, Lawrence..1st High D
Kissling, William.....8th Grade
Klass, Edmund.....4th High
Knapp, Myron.....1st High C
Knierim, Charles.....7th Grade
Kochis, William....Fresh. Eng.
Koehler, Joseph.....1st High C
Koehnen, Edward....2d High A
Koehnen, Jerome..1st Business
Kohn, William.....2d High A
Kohn, Price.....7th Grade
Kramer, Wilbur.....2d High B
Kranz, Gerald.....4th High
Kronauge, Frank....3d High A
Kronauge, Paul.....2d High C
Kugelman, Arthur....7th Grade
Kuhn, Adrian.....Fresh. Eng.
Kuhn, Joseph.....Junior Eng.
Kuntz, Andrew.....Soph. Eng.
Kuntz, Edward.....Fresh. Eng.
Kuth, Harry.....2d High B

Lai Hipp, Henry.....4th High
Lamoureux, Ernest..1st High B
Lang, Vincent.....1st High D
Larkin, William.....6th Grade
Lause, Nicholas.....1st High A
Lause, Eulogius....Senior Eng.
Lavelle, Ralph.....1st High A
Lechleitner, Edward...Sr. Arts
Lesher, Robert.....2d High A
Lienesch, Theodore.Fresh. Eng.
Linehan, Thomas.....7th Grade
Lins, Carl.....6th Grade
Liszak, George.....3d High A
Long, Howard.....1st High A

Macklin, Frank.....6th Grade
Mackmull, Matthew..3d High B
Maley, Keefe.....4th High
Malloy, J. A.....3d High B
Maloney, Joseph.....2d High B
Maloney, Stephen.....4th High
Marrinan, Leo.....1st Business
Marshall, Charles....3d High A
Marshall, Oswald....1st High B
Marshall, Otto.....1st High A
Martin, Frank.....1st High C
Martin, Fred.....Junior Eng.

Mason, Louis.....2d High C
May, Alphonse.....4th High
May, James.....1st High B
Mayl, Gene.....2d High B
Meckling, Robert.....5th Grade
Melia, Harold.....2d High D
Mendez, Alfredo....Junior Eng.
Menker, Edwin.....3d High A
Meredith, Hubert....2d High D
Meyer, Earl.....1st High B
Meyer, Emil D.....8th Grade
Meyer, Wesley.....8th Grade
Michael, Edward.....3d High B
Michniewiecz, A.....3d High A
Miles, John.....2d High B
Miller, Myron.....1st High D
Miller, Sylvester.....2d High B
Molloy, Vincent.Soph. Pre-Med.
Molnar, Joseph.....1st High C
Moore, William.....1st High A
Moore, Franklin.....8th Grade
Moosbrugger, Edwin.3d High A
Moosbrugger, Joseph...Jr. Eng.
Mott, Norbert.....3d High B
Mueller, Carl E.....Fresh. Arts
Mueller, Ernest.....1st High A
Mullin, Clair.....4th High
Murphy, James.....4th High
Murphy, Joseph.....2d High B
Murphy, Joseph.....8th Grade
Murphy, Virgil.....Senior Arts
Murray, Charles.....3d High A
Murray, Edward.....6th Grade
Musselman, Paul.....5th Grade
Muth, Richard.....4th High
Myers, William.....2d High C

McBaron, Louis.....2d High A
McBride, Philip.....8th Grade
MacCandless, John..1st High B
McCarthy, Anthony..3d High A
McCarthy, Daniel....2d High C
McCarthy, Leo.....2d High B
McCarthy, Urban...2d Business
McCarthy, William.1st Business
McCready, Claude....2d High C
McCurran, James....3d High B
McDermott, James...8th Grade
McDonald, Aloysius.Fresh. Arts
McDonald, Joseph...1st High A
McFadden, Leroy....2d High B
McFarland, Dean...Senior Arts
McGreevey, John....1st High B
McInerhney, Edward.3d High B
McLaughlin, Allen.1st Business
McTigue, Francis.....7th Grade
McVeigh, James.....7th Grade

Nasser, Victor.....6th Grade
Needham, George.....7th Grade
Newman, Thomas.....8th Grade
Newman, Sam.....Fresh. Eng.
Niehaus, Charles.....4th High
Niesen, Leonard.....2d High D
Nilles, Joseph.....3d High B
Nilles, Jacob.....1st Business
Nicholas, Howard....8th Grade
Nichols, William.....6th Grade
Nordhoff, Godfrey....3d High B

O'Connell, Edward..1st High D
O'Hearn, Robert...Fresh. Eng.
O'Meara, James.....1st High D
O'Donnell, Joseph....7th Grade
O'Donnell, Martin...1st High D
O'Neill, John.....2d Business
O'Neill, Sherman...2d Business
Oakman, George.....6th Grade
O'Hearn, Robert...Fresh. Eng.
Ohmer, Paul.....Junior Eng.
Orcasitas, George..2d Business
Orth, Wilbur.....1st High D
Oster, Howard.....8th Grade
Oster, Paul.....4th High
Osterfeld, Herman....6th Grade
Ovington, Thomas....8th Grade

Patko, Anthony.....6th Grade
Paul, Robert.....Fresh. Eng.
Pauzar, Karl.....2d High C
Payette, John.....4th High
Payne, Edward.....2d High D
Payne, Robert.....4th High
Pease, Robert.....7th Grade
Pecord, Oliver.....3d High B
Pelzer, Clarence.....3d High B
Petkewicz, Casimir.1st High D
Pfarrer, Fred.....3d High A
Pfeiffer, Norbert.....2d High B
Pflaum, George.....1st High D
Phillipi, George.....8th Grade
Plummer, Ray.....7th Grade
Poeppelmeier, Leo.1st Business
Poliquin, Alfred.....3d High A
Porter, Leslie.....Senior Eng.
Price, John L.....7th Grade

Quinlan, John.....2d High C
Quinlisk, John.....2d Business

Rabe, Alvin.....3d High B
Raiff, Herman.....2d High B
Rayburg, Gerald.....2d High A
Reams, Fred.....2d High A
Regan, Thomas.....8th Grade
Reibel, Charles.....6th Grade
Reilly, Daniel G....1st High C
Renner, William....1st High B
Reyna, Ysidro.....1st Business
Rhoads, Thomas....1st High D
Richardson, Edward.2d High B
Richardson, Joseph..6th Grade
Roberto, Paul.....8th Grade
Robertson, Floyd.....6th Grade
Rock, Robert.....5th Grade
Roderer, George...2d Business
Rohr, Edwin.....2d High A
Rolfes, Theodore....1st High D
Ronan, Martin.....3d High B
Ronan, Philip.....2d High D
Rost, Henry.....1st Business
Roth, John....Sen. Chem. Eng.
Rotterman, Robert....4th High
Rubenstein, John....2d High C
Rudolph, Francis.....7th Grade
Ruhlman, Frank.....6th Grade
Russell, John.....1st High D
Ryan, Daniel.....2d High A

Sack, Andrew.....2d High D
Sacksteder, Alvin...2d High A
Saettel, Alvin.....2d High C
Saettel, Clayton.....6th Grade
Salwiesz, Walter.....5th Grade
Sander, Edward.....4th Grade
Schaaf, Cletus.....2d High C
Schaefer, Joseph...Junior Eng.
Scales, William.....1st High C
Schetter, Charles.....6th Grade
Schilder, Robert...1st Business
Schmidt, Waldemar...Jr. Eng.
Schmidt, William....1st High C
Schmitz, Clemens....7th Grade
Schneider, Edward..3d High A
Schoeppelrei, Ferd...2d High B
Schroeder, Henry...3d High A
Schrunder, Raoul...1st High D
Schwind, Joseph....2d High A
Seidenstick, Benj....2d High C
Seniour, Merlin....1st Business
Senn, Albert.....2d High A
Shafer, Harry..Special Student
Shaw, Walter D...Fresh. Eng.
Shearer, Ward.....4th High
Shepherd, Howard...6th Grade
Sherer, Lewis.....2d High C
Sherman, Charles....3d High A
Sherman, Elmer.....3d High A
Sherry, William....Junior Eng.
Shouvlin, Joseph.....4th High
Signom, Leslie.....1st High B
Simon, Donald.....1st Business
Sinnott, Lawrence....4th High
Slaven, Ohmer.....8th Grade
Smedley, Clement....7th Grade
Smith, James.....1st High A
Smith, Russell.....1st Business
Snyder, Edward.....3d High A
Somes, Harry V....Soph. Arts
Sparrow, Richard...1st High C
Sprunck, Carroll....2d High A
Staab, Walter.....1st High D
Staley, Lewis.....6th Grade
Stang, Henry.....Fresh. Eng.
Stanton, Paul.....Senior Eng.
Stelzer, Alphonse....2d High A
Stelzer, Ivo.....4th High
Stengel, Richard.....2d High A
Stokes, James.....1st High C
Stonebarger, Chas..2d High B
Stopf, James.....2d High C
Stoppelman, William.3d High B
Strattner, George.....4th High
Strosnider, Aubrey..8th Grade
Stuhldreher, Louis...7th Grade
Stuhlmueller, C....Senior Arts
Sullivan, Charles.....4th High
Summers, H. G.....2d High A
Summers, James....Soph. Eng.
Supensky, John.....2d High A
Swint, Paul.....2d High D
Synnett, Peter.....Soph. Eng.

Taylor, Edward.....3d High A
Teasdale, Richard...3d High B
Telscher, Edmund..1st High D
Thobe, Cyril.....1st High B
Thomas, Ward.....2d High D
Thompson, Mark...Fresh. Eng.
Thornton, Robert..1st Business
Tierney, Lawrence..2d High B
Tierney, Thomas....8th Grade
Tischer, Albert.....1st High D
Tomas, Marcos....1st Business
Tomas, Santiago.....8th Grade
Toohey, Cornelius...2d High A
Toomey, Erwin....Fresh. Eng.
Tracey, Herbert.....3d High B

Ulrich, Lawrence....2d High B

Van Arnham, Ed....2d High D
Van Arnham, W....1st High B
Virant, Ludwig....Senior Arts
Vogt, Joseph.....1st High A
Volino, Perry.....1st Business
Volz, George.....7th Grade
Von Beseler, F.....2d High D
Von Mach, M.....Senior Arts

Wagner, Herbert....2d High B
Wagner, Roland.....8th Grade
Walsh, Albert.....4th High
Wartinger, Walter..1st High C
Weber, Carl.....Fresh. Arts
Weber, Lawrence...Senior Arts
Weber, William....Junior Eng.
Weckesser, A.....Fresh. Eng.
Weckesser, V.....1st High C
Weidner, Eugene....2d High A
Weiler, Herbert...1st Business
Weinert, Henry....Fresh. Arts
Weis, Louis.....3d High A
Welsh, Edward.....8th Grade
Welsh, Raymond....1st High C
Wenstrup, Carl.....4th Grade
Wenstrup, Urban....8th Grade
Wert, Bernard.....Fresh. Eng.
Wessell, Kenneth....6th Grade
Westbrock, Norbert..2d High C
Westbrock, R.....2d Business
Westropp, Harold....7th Grade
Whalen, Robert.....1st High B
Whelan, Leonard....2d High C
Williamson, Joseph..5th Grade
Wilson, Joseph.....2d High C
Winterhalter, Ed....3d High A
Wintermeyer, R....1st High B
Woditsch, Carl.....1st High B
Wolf, Alfred J.....1st High B
Wolf, Anthony.....4th High
Wolf, Charles.....1st High D
Wolf, Henry.....1st High D
Wolf, Herbert.....4th High

Yackley, Wilbur....Soph. Eng.
Young, Varley.....2d High D
Yost, Elmer.....3d High B

Zahn, Edward.....2d High C
Zehenni, Joseph...1st Business
Zengel, Leo.....2d High B
Zettler, Herbert....1st High A
Zitkus, Frank.....4th High
Zoeller, Harold.....1st High A
Zofkie, Cletus.....4th High

SOCIETIES

APOSTLESHIP OF PRAYER IN LEAGUE WITH THE SACRED HEART

The object of the Apostleship and League is to promote interest in the great movements of the times for the true welfare of mankind, by uniting prayers and good works with the intention of the Sacred Heart of Jesus. Devotions to the Sacred Heart are held on all the First Fridays. Membership is confined to students who have received their First Holy Communion. Number of members, 500.

Officers

Daniel Collins ..... *President*
H. Vandenburg Somes ..... *Registrar*
James Connelly ..... *Secretary*
Joseph Murphy ..... *Treasurer*
Rev. Clement I. Wulf, S. M. ..... *Director*

Promoters

Daniel Collins
William Clendenin
James Connelly
Carroll Deery
Francis Elardo
John Hannahan
Aloysius Huber
Edward Heile
Theodore Lienesch
Alphonse May
Harold Melia
Edwin Moosbrugger
Richard Muth
Joseph Murphy
Martin O'Donnell
Edward Payne
Alfred Poliquin
Alvin Rabe
Joseph Schwind
H. V. Somes

SODALITY OF THE IMMACULATE CONCEPTION

The Sodality of the Immaculate Conception was established at the College in 1875. Its object is to foster in the hearts of the students a tender love for the Mother of God. The Sodality has special devotional exercises every Saturday. Number of members, 215.

St. Gregory Branch

Officers

Joseph McFarland ..... *President*
Lawrence Weber ..... *Vice-President*
Franci Heider ..... *Secretary*
John Hannahan ..... *Treasurer*
Daniel Collins ..... *Sacristan*
Alvin Kersting ..... *Librarian*
Rev. Aloysius Schratz, S. M. ..... *Moderator*

Members

James Connelly
Joseph Finan
Aloysius Huber
Harry V. Somes
Henry Weinert
Eugene Dunn
Albert Fisher
John Killoran
Ludwig Virant
Carl Weber
Stephen Emmerick
Raymond Gorman
Edward Lechleitner
Max von Mach
Anthony Wolf

Branch No. 1

OFFICERS

Joseph Holters ..... *President*
William Sherry ..... *Vice-President*
Leo Dolan ..... *Secretary*
Rev. Joseph Tetzlaff, S. M. ..... *Moderator*

MEMBERS

Walter Curtis
Mark Thompson
Maurice Boylan
John Halpin
John Quinlisk
Carl Wenstrup
Karl Hahn
Edwin Moosbrugger
Cliff. Stuhlmueller
Henry Lai Hipp
Gerald Kranz
Anthony McCarthy

Branch No. 2

OFFICERS

George Edmondson ..... *President*
Paul Swint ..... *Vice-President*
Edwin Moosbrugger ..... *Secretary*
Eugene Weidner ..... *Treasurer*
Rev. Francis Kunnecke ..... *Moderator*

MEMBERS

James McCurran
F. Van Beseler
Richard Teasdale
Edward Heile
Louis Ascarraga
James Stopf
Charles Cavanaugh
Robert Burns
Arthur Gottron
Raymond Dorger
Paul Grote
George Donovan
Martin Cloran
John Day
Carroll Sprunck
Joseph Deddens
Hugh Howlett
Edward Doerger
Alvin Rabe
Philip Grote
J. A. Malloy
Robert Thornton
William Clendenin
Harold Melia
Alfred Poliquin
Andrew Sack
James Burns

Branch No. 3

OFFICERS

Edward Payne ..... *President*
Joseph Gottbrath ..... *Secretary*
Rev. Clement I. Wulf, S. M. ..... *Moderator*

MEMBERS

Eugene Anderson
M. Aufderheide
John Boyle
Wm. Comerford
George Covert
Joseph Donovan
William Fritz
Joseph Gottbrath
Norbert Hils
Merlin Hughes
William Johnston
Otto Marshall
Oswald Marshall
Norbert Mott
Myron Miller
John McGreevy
Leonard Niesen
Edward Payne
John Quinlan
Paul Roberto
Martin Ronan
William Scales
Ferd Schoppelrei
William Schmidt
Donald Simons
Russell Smith
Edwin Telscher
Edw. Van Arnhem
Joseph Vogt
Perry Volino
Urban Wenstrup

Branch No. 4

Officers

Edward Collet ..... *President*
Thomas Doyle ..... *Secretary*
James Carlin ..... *Treasurer*
Rev. John Rauscher ..... *Moderator*

Members

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Victor Comer
Gerald Corbett
John Dierkes
Lawrence Eckman
Arthur Fisher
Paul Frohle
Edward Gerlaugh
Eugene Gilligan
Joseph Goetz
Chester Graham
James Grimes
Joseph Healy
Norbert Hellman
Emery Hendrick
Joseph Janning
William Kissling
Arthur Kugelman
Philip McBride
Joseph Molnar
Joseph Murphy
George Needham
Thomas Newman
Joseph O'Donnell
Thomas Regan
Theodore Rolfes
Francis Rudolph
Clement Schmitz
Clement Smedley
Walter Staab
Louis Stuhldreher
Thomas Tierney
George Volz
Roland Wagner

Branch No. 5

Officers

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Raymond Welsh ..... *Vice-President*
Albert Tischer ..... *Secretary*
Thomas Kenny ..... *Treasurer*
John Gilbride, S. M. ..... *Moderator*

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Nicholas Lause
Alfred Wolf
Albert Bussinger
John MacCandless
Karl Woditsch
Lionel Bradmiller
Herbert Hirsch
Joseph Koehler
Walter Wartinger
James Coffield
Anthony Frey
James O'Meara
Thomas Rhoads
Henry Wolf
William Eckley
Lawrence Glynn
Joseph Bach
Joseph Donegan
James May
William Ashton
Francis Hagan
Richard Hochwalt
Frank Martin
Vincent Weckesser
John Fansher
Joseph Jonas
Casimir Petkewicz
Lawrence Kissling
Herbert Eikenberry
Robert Glynn
John Brown
Ernest Lamoureux
Robert Whalen
Robert Blackburn
Leo Hemberger
Victor Keuping
Richard Sparrow
Vernard Bremer
William Focke
Vincent Lang
George Pflaum
Charles Wolf
John Russell

HOLY NAME SOCIETY

The Holy Name Society was organized among the students at the annual retreat, 1904. Its object is to prevent the use of profane and immodest language, and thus to promote the interests of the Holy Name of God.

The resident students are grouped by division, the non-resident students by classes. Branch meetings are held once a month, and the board of General Officers meets once a month. Number of members, 500.

GENERAL OFFICERS

Ludwig Virant	*President*
Joseph Schaeffer	*Vice-President*
William Sherry	*Secretary*
Paul Ohmer	*Treasurer*
Lawrence Weber	*Librarian*

BRANCH OFFICERS

Resident Officers

No.	*President*	*Secretary*	*Treasurer*
1.	Ludwig Virant	Lawrence Weber	Lawrence Weber
2.	Anthony Wolf	Aloys Huber	Joseph Shouvlin
3.	James Hart	Martin Ronan	Edw. McInerhney
4.	John O'Neil	Philip Gottron	Ward Thomas
5.	Rich. Teasdale	James Stopf	Lester Brink
6.	Carroll Deery	Eugene Anderson	Paul Roberto
7.	Thomas Doyle	Arthur Kugelmann	John Staley

Non-Resident Officers

No.	*President*	*Secretary*	*Treasurer*
1.	John Roth	Paul Ohmer	John Schaeffer
2.	Frank Elardo	Edward Brown	Richard Rotterman
3.	Herbert Byrne	Francis Farley	Raymond Helmig
4.	Wilbur Karl	R. Westbrook	William Doerger
5.	Wm. McCarthy	Karl Pauzar	Norbert Burgmeier
6.	Clarence Derby	Wilbur Kramer	Joseph Schwind
7.	L. Bradmiller	Leo Hemberger	James Coffield
8.	Charles Thobe	William Eckley	Joseph Brown
9.	James Janning	Roland Wagner	William Eckman

ST. JOHN BERCHMAN ACOLYTICAL SOCIETY

First Division

James Connelly	Walter Curtis	Joseph Finan
Arthur Fisher	Anthony Flaherty	John Hannahan
John Killoran	Alvin Kersting	Vanderburg Somes
Lawrence Weber	Anthony Wolf	

Second Division

Edward Heile
Robert Payne
Alvin Rabe

Third Division

Joseph Amersbach
George de Castro
William Fritz
Alvin Hegman
Myron Miller
John Quinlin
M. Aufderheide
Carroll Deery
Joseph Gottbrath
Norbert Hils
Leonard Niesen
William Scales
Perry Volino
Roy Boggan
Joseph Donovan
Fred Gwinner
Norbert Mott
Edward Payne
William Schmidt

THE S. M. C. EXPONENT MAGAZINE

THE EXPONENT, a monthly magazine, edited and published by the undergraduates, is the literary, social and athletic organ of the student body. As its name indicates, THE EXPONENT is an index of student life at St. Mary College in all its varied phases. Each month's issue contains representative work of the pupils in the departments of philosophic, scientific and literary study in which their mental activity is exercised; and a detailed chronicle of the events of college life, together with live news of alumni and athletic prowess, all prove of special interest to a wide circle of parents, relatives, alumni and friends of the college. THE EXPONENT carries practically every live merchant and manufacturer as advertisers in its pages, and appears to be a good medium of advertising for Dayton business men, as well as manufacturers out of town.

EDITORIAL STAFF

Editor-in-Chief ..... Dean McFarland
Assistant Editors-in-Chief ..... { Clif. Stuhlmueller, Daniel Collins }

ASSISTANT EDITORS

Edw. Lechleitner
Lawrence Weber
Raymond Gorman
Max von Mach
John Killoran
Herbert Abel

LYCEUM LECTURE COURSE

For the past eight years St. Mary College has offered attractive lecture courses to the student body and to the people of Dayton. The courses have been attended by practically the entire student body and a large number of Dayton people. These lecture courses have brought to Dayton entertaining and instructive lecturers.

Hawaiian Quintet.....*Royal Hawaiian Singers and Players*
Monday, October 22, 1917

Tyroleans.....*Alpine Singers and Yodelers*
Tuesday, November 27, 1917

Noah Beilharz.....*Miscellaneous Program of Impersonations*
Thursday, December 6, 1917

Edwin Whitney..*Impersonator in "The Message From Mars"*
Monday, January 7, 1918

Imperial Russian Quartet....*Instrumental and Vocal Program*
Friday, January 18, 1918

Poluhni & Company.....*Mystic Illusion and Modern Magic*
Thursday, January 31, 1918

S. M. C. GOLD MEDAL ELOCUTION CONTEST

December 2, 1917

Prelude—The Spirit of 1917.....S. M. C. Student Orchestra
March—The Battle Song of Liberty.S. M. C. Student Orchestra

The Extorted Signature.....Robert Wintermeyer
The Fireman's Prize.....Wilbur Kramer
The Black Horse and Its Rider.....Clarence Derby
Limpy Tim .....Eugene Anderson
A Hero of the Commune.....Norbert Hils

Violin Solo—Caprice Viennois.....F. Kreisler
Joseph Moosbrugger, '19

Parting of Marmion and Douglas.....Harold Melia
The Deserter.....Joseph Gottbrath
Sheridan's Ride.....William Keenan
Poor Little Joe.....William Meyers

Cornet Solo—Selected.....Frederick Moehring

DECISION OF THE JUDGES
Rev. Leo M. Schmitt
Dr. W. E. Ashman H. B. Solimano

March—Mississippi Volunteers.....S. M. C. Student Orchestra

SENIOR ELOCUTION CONTEST

December 16, 1917

The Star Spangled Banner.....Key
Illustrated with Stereopticon Views
S. M. C. Student Orchestra

March—To the Front.....Stambough
S. M. C. Student Orchestra

Fitz-James and Rhoderick Dhu.....Albert Walsh
Belshazzar's Feast .....Alvin Rabe
Forgive Your Enemies.....Raymond Helmig
Domine Quo Vadis.....Clancy De Maro

March—Winter .....Gumble

Laddie .....Adrian Kuhn
The Gladiator .....Norbert Mott
Nathan Hale—The Martyr Spy....Anthony McCarthy
Lochiel's Warning .....Lee Michael

Zither Solo—Fantaisie Brillante.....V. Kratochwill
Song Without Words.....K. F. Umlauf
The Chimes in the Valley.....F. Umlauf
Albert and Richard Altrichter

DECISION OF THE JUDGES

Captain J. O. Donovan
Dr. A. J. Moorman Hon. Robert C. Patterson

March—The Winning Fight.....
S. M. C. Student Orchestra

SERVICE FLAG CELEBRATION

Washington's Birthday, February 22, 1918
St. Mary College, Dayton, Ohio

Patriotic March—Rally Round the Flag.....Arr. by Hildreth
S. M. C. Student Orchestra
Air—America .....
Audience and Orchestra
Address—George Washington.....J. D. McFarland, '18
Recitation, Poem—The Service Flag.....Leo Dolan, '21
Patriotic March—The Battle Song of Liberty.Arr. by Hildreth
Address—S. M. C. Service Flag..Rev. B. P. O'Reilly, President
Unfurling of S. M. C. Service Flag.....
.....Theodore Rush, S. M., Veteran of Civil War
Song—To the Service Flag.....Fillmore
Audience and Orchestra
Address—S. M. C. Alumni.....
....Attorney Chas. Whalen. Pres. S. M. C. Alumni Ass'n
Address—Our Country .....
..Hon. Roland Baggott, Judge of Court of Dom. Relations
National Anthem—The Star Spangled Banner.... .....Key
Audience and Orchestra
March—Over the Top.....O'Hara
S. M. C. Student Orchestra

"AN EVENING OF COMEDY"

Presented by the St. Mary College Dramatic Club
Sunday, April 21, and Monday, April 22, 1918

PROGRAM

Star Spangled Banner.....Key
Overture—Crown of Gold.....Herman
The Great Libel Case—Cast: J. Holters, Judge; M. Thompson, Plaintiff; R. Gorman, Defendant; L. Dolan, Plaintiff's Attorney; L. Weber, Witness for the

Plaintiff; J. Killoran, Defendant's Attorney; Jurors: C. Mueller, C. Weber, D. McFarland, A. Fischer, A. Genard, J. Malloy, M. Von Mach, A. Wolf, F. Heider, A. Rabe, H. Weinert, L. Virant, J. Connelly, T. Finan, W. Kochis.

Danza Mexicana—Pauquita ..... Robyn

Two Wandering Jews—Cast: Maximilian Von Mach and William Kochis.

Hey, Rube—Anthony McCarthy.

Ballet—Intermezzo Russe ..... Franke

A First-Class Hotel—Cast: D. McFarland, R. Gorman, W. Curtis, J. Malloy.

Dixie Land ..... Emmet

The Little Red Mare—Cast: R. Gorman, F. Von Beseler, A. Walsh, D. McFarland.

March—A Signal From Mars ..... Taylor

THE SIXTH ANNUAL CONTEST

For the Dr. D. G. Reilly Prizes in Oratory

$30—$20—$10 in Gold

Sunday Evening, March 17, 1918

St. Mary College Hall, 8:00 O'clock

PROGRAM

March—America, the Land of Liberty ..... Huston

Oration—Patriotism ..... Maximilian von Mach, '18

Oration—With Whom Is Our Quarrel? . John B. Killoran, '18

March—I Tried to Raise My Boy to Be a Hero ..... Huston

Oration—Who Are the Patriots Today? . Joseph Holters, '19

Oration—War Sacrifices ..... Clifford Stuhmueller, '18

March—Your Country Needs You ..... Cormack

Oration—The War, Our Responsibilities ... Leo Dolan, '19

March—The Battle Song of Liberty ..... Arr. by Hildreth

Audience and Orchestra

Violin Solo—Concerto No. 5 ..... Seitz

Violin, Herman Wittman; Piano, Anthony Flaherty

DECISION OF THE JUDGES

Rev. B. F. Kuhlman, D. D. John T. Nielson

Edw. E. Burkhart

March—Our Own Red, White and Blue ..... Fillmore

Music by the S. M. C. Student Orchestra

ST. MARY COLLEGE LITERARY CLUB

Collegiate Department

The St. Mary College Literary Club has for its aim and purpose to stimulate interest in public speaking. Debates and discussions on current topics constitute the means employed to aid the members to acquire that ability in public speaking so necessary today. The talent in the oratorical contests at the college is composed mainly of the members of St. Mary College Literary Club.

OFFICERS

Dean McFarland ..... *President*
Daniel Collins ..... *Vice-President*
Ludwig Virant ..... *Secretary and Treasurer*

MEMBERS

Lawrence Weber
Dean McFarland
Francis Heider
Ludwing Virant
John Killoran
Alvin Kersting
Max von Mach
Edw. Lechleitner
Raymond Gorman
Joseph Finan
Daniel Collins
John Hannahan
Vanderburg Somes
Albert Fisher
Karl Weber
Henry Weinert
Leo Dolan
Carl Mueller
James Connelly

ST. MARY COLLEGE ENGINEERING SOCIETY

OFFICERS

Eulogius Lause ..... *President*
Paul Ohmer ..... *Vice-President*
William Sherry ..... *Secretary*
Paul Stanton ..... *Treasurer*

ACTIVE MEMBERS

John Crowley, '18 ..... Active
Russel Garrison, '18 ..... Active
Eulogius Lause, '18 ..... Active
Leslie Porter, '18 ..... Active
Joseph Kuhn, '19 ..... Active
John Roth, '18 ..... Active
Paul Stanton, '18 ..... Active
C. Deckwitz, '19 ..... Active
Clemens Deman, '19 ..... Active
Joseph Holters, '19 ..... Active
Joseph Moosbrugger, '19 ..... Active
Elmer Hess, '19 ..... Active
Paul Ohmer, '19 ..... Active
Fred Martin, '19 ..... Active
Alfred Mendez, '19 ..... Active
Joseph Schaeffer, '19 ..... Active
Waldemar Schmidt, '19 ..... Active
William Sherry, '19 ..... Active
Aloys. Crowley, '20 ..... Active

George Hochwalt, '20 ..... Active
Carrol Hochwalt, '20 ..... Active
Edward Happensack, '20 ..... Active
Wilbur Yackley, '20 ..... Active
Emil Kessler, '20 ..... Active
Matthias Cahill, '20 ..... Active
Peter Synnet, '20 ..... Active
William Boesch, '20 ..... Active
Howard Hetzel, '20 ..... Active
Russel Summers, '20 ..... Active

ASSOCIATE MEMBERS

William Weber, '19 ..... In the Army
Cliff Stuhlmuellner ..... Associate
Vincent Malloy ..... Associate
Leo Dolan ..... Associate

THE LONGFELLOW LITERARY CIRCLE

OFFICERS

Leo Hemberger ..... *President*
William Scales ..... *Vice-President*
Hubert Brunner ..... *Secretary*
William Schmidt ..... *Treasurer*

MEMBERS

William Ashton
Norwood Gross
Emery Hendrik
Thomas Kenney
Joseph Molnar
Walter Wartinger
Robert Blackburn
Francis Hagan
Herbert Hirsch
Victor Keuping
Daniel Reilly
Vincent Weckesser
Myron Knapp
Lionel Bradmiller
Norbert Hellmann
Richadt Hochwalt
Joseph Koehler
Richard Sparrow
Raymond Welsh

THE WEBSTER LITERARY CIRCLE

OFFICERS

Norbert Mott ..... *President*
Alfred Malloy ..... *Vice-President*
Oliver Record ..... *Secretary*
Alvin Rabe ..... *Librarian*

MEMBERS

Martin Cloran
Clarence Hieber
Matthew Mackmull
Joseph Nilles
Raymond Dorger
Bernard Hughes
James McCurran
Wm. Stoppelman
Anthony Flaherty
Elden Hughes
Edw. McInerhney
Richard Teasdale

FIRST HIGH D LITERARY CIRCLE

OFFICERS

Martin O'Donnell ..... *President*
Casimir Petkewicz ..... *Secretary*
James Coffield ..... *Treasurer*
Bernard Bremer ..... *Historian*

MEMBERS

Bernard Bremer	Lawrence Kissling	Wilbur Orth
James Coffield	Vincent Lang	Casimir Petkewicz
Ralph Dooley	Myron Miller	George Pflaum
John Fansher	Edward O'Connell	Thomas Rhoads
William Focke	Martin O'Donnell	Theodore Rolfes
Joseph Jonas	James O'Meara	Walter Staab
Edmund Telscher	Albert Tischer	Charles Wolf
Henry Wolf	John Russell	Leonard Hodgkin

TROOP No. 21, ST. MARY COLLEGE BOY SCOUTS OF AMERICA

Rev. B. P. O'Reilly, S. M.....*Chairman, Troop Committee*
Brother Adrian Keoho, S. M.....*Scoutmaster*
II Cl. Scout Norbert Hils.....*Senior Patrol Leader*

Beaver Patrol	*Eagle Patrol*	*Fox Patrol*
P.L. George Castro	P.L. Norbert Hils	P.L. John Boyle
APL. Paul Frohle	APL. Gerald Corbett	APL. Joseph Jonas
1. Theodore Rolfes	1. Norbert Hellman	1. Jos. Healy
2. Jos. Murphy	2. Geo. Covert	2. Francis Rudolph
3. Victor Corner	3. Thos. Doyle	3. John Cleary
4. Ralph Henne	4. Joseph Molnar	4. Thomas Regan
5. Clem. Smedley	5. Geo. Oakman	5. Geo. Haley
6. H. Osterfeld	6. F. Westropp	6. Chester Graham
P.L. R. Welsh	*Lion Patrol*	4. Emery Hendrik
APL. Jos. Koehler	2. Leslie Signom	5. Arnold Israel
1. Myron Knapp	3. Philip McBride	6. Lee Hemberger

S. M. C. CHOIR

Voice culture is fostered in all departments of the College. Sight singing is taught to the younger students who are encouraged to become members of the S. M. C. Choir of select voices. Students of the Collegiate Department are eligible to membership in the S. M. C. Glee Club, a popular organization among the young men of the College.

S. M. C. ORCHESTRA

Louis Vogt, S. M., *Director*

The Music Department of the College is intended primarily to accommodate those who wish to pursue the study of music for its cultural advantages and as a refined accomplishment.

The students of the Department of Music are encouraged to acquire the proficiency requisite for membership in the Student Orchestra, S. M. C. Orchestra, and S. M. C. Band.

These musical organizations give recitals and concerts in the course of the year and furnish the music at all dramatic and athletic events. They have been well received for years and have earned the continued favor of large audiences by their exceptional rendition of classical as well as popular programs.

The department of music showed exceptional activity with its student orchestra, student-faculty orchestra, boy scout drum corps, mandolin club and band.

Elocution contests, oratorical contests, dramatic programs, athletic games, concerts at local hospitals and parish socials were featured by excellent programs of music.

Members of the Orchestra

First Violin: Joseph Moosbrugger, Edward Moosbrugger, Walter Curtis, Raymond Westbrock, Norbert Westbrock, Raymond Helmig, Herman Wittman, Richart Altrichter. Second Violin: Louis Wittmann, Joseph Jonas, Charles Stonebarger, Charles Wartinger, Michael Grandy, S. M.; Theodore Moritz, S. M. Viola: James Nickol, S. M.; Fred Hartwich, S. M. Cello: Thomas Poitras, S. M.; George Deck, S. M.; Adalbert Altrichter. Contra Bass: Matthias Haas, S. M.; Charles Miller. Flute: Norbert Westbrock. Solo Clarinet: Adrian Buerger. First Clarinet: Harold Melia. Second Clarinet: Stephen Emmerick. Third Clarinet: Manuel Castro. First Cornet: Frederick Moehring. Second Cornet: Wilbur Orth. Trombone: Walter Doruch, Albert Werner. Horn: George Castro. Drums: Anthony Flaherty, Richard Teasdale. Piano: Anthony Flaherty, Albert Altrichter. Director: Louis Vogt, S. M.

Members of the S. M. C. Cadet Band

Chief Trumpeter: Frederick Moehring, Solo Cornet. Band Instructor and Manager: Louis Vogt, S. M. Drum Major Sergeant: Anthony Flaherty. Sergeant Bugler: Wilbur Orth, Solo Cornet. Walter Curtis, Sergeant, Solo Cornet. John Quinlan, Corporal, First Cornet. Fred Gwinner, Second Cornet. Varley Young, Third Cornet. George Castro, Corporal, Solo Alto. Joseph Jonas, First Alto. Joseph Vogt, Second Alto. Daniel McCarthy, Baritone. Walter Doeuch, First Trombone. Albert Werner, Second Trombone. Aloys McDonald, Helicon. Ward Thomas, Tuba. Richard Teasdale, Snare Drum. Charles Cavanaugh, Bass Drum. Eugent Anderson, Cymbal. Norbert Westbrock, Flue. Harold Melia. Sergeant, E-flat Clarinet. Stephen Emmerick, Solo B-flat Clarinet. Adrian Buerger, Solo B-flat Clarinet. Manual Castro, Corporal, First Clarinet. Edgar Helldorfer, Second Clarinet.

The S. M. C. Band has done splendid work during the past season at the Basket Ball Games and the Base Ball Season.

Once a week the Band was on hand for the Dress Parade and Review of the S. M. C. Cadets. They headed the Battalion in the War Chest Parade and on Decoration Day. The general verdict was that S. M. C. Cadet Band played the snappiest of all the bands in this parade.

S. M. C. ATHLETIC ASSOCIATION

FOOTBALL BASEBALL BASKET-BALL
TRACK FIELD TENNIS

Football, basket-ball, baseball, track, field and tennis are fostered without interfering with the class standing of the students. Athletics there does its part in completing the physical development of the young man, and gives the necessary distraction to break up the otherwise monotonous run of college life.

Five spacious campuses accommodate the entire student body. A quarter-mile cinder path makes possible the development of track work, as well as the scheduling of meets in Dayton. Four large club rooms equipped with light gymnastic apparatus, basket-ball courts, bowling alleys, billiard and pool tables and a variety of games adapted to the age of the students, offer unsurpassed facilities to entertain the student body during inclement weather and during the winter season when outdoor exercises and sports are impossible. The basket-ball court in the gymnasium for the intercollegiate games of the Varsity and Academy Teams is one of the largest in the State.

Coaches are in charge of the different departments of athletics. By the interest they have stimulated these past years, St. Mary has met and defeated the best teams in the State.

OFFICERS

Dean McFarland ..... *President*
Paul Ohmer ..... *Vice-President*
John Killoran ..... *Secretary*
Ludwig Virant ..... *Business Manager*

MEMBERS

Edward Berghoff
John Breen
Thomas Casey
Walter Curtis
Veeder Donaghy
Stephen Emmerick
Joseph Finan
James Hart
Francis Heider
Bernard Hughes
Joseph Holters
Thomas Kehoe
Gerald Kranz
Eulogius Lause
Dean McFarland
Godfrey Nordhoff
Oliver Pecord
Ward Shearer
Cliff. Stuhlmueller
Erwin Toomey
Carl Weber
Bernard Wert
Richard Bowman
Lawrence Sinnott
Francis von Beseler
George Edmondson
Eugene Bacszenas
Francis Elardo
George Hochwalt
Aloys Sacksteder
Alexis Genard
Maurice Boylan
James Connelly

William Deddens
Leo Dolan
Anthony Flaherty
Albert Fischer
John Halpin
Howard Hess
Elden Hughes
Joseph Holscher
Alvin Kersting
John Killoran
Stephen Maloney
Edw. McInerhney
George Orcasitas
John Quinlisk
Joseph Shouvlin
Charles Sullivan
Max von Mach
Lawrence Weber
Anthony Wolf

Philip Flood
Eugene Busch
John O'Neill
Andrew Sack
Carl Deckwitz
Michael Hess
Paul Ohmer
William Sherry
Henry Stang
Raymond Gorman
Carl Hahn
William Conway
Marcellus Heile
Arthur Donnelly
Joseph Flanagan
John Hannahan
Edw. Happensack
Aloys Huber
Francis Hughes
Fred Kaullen

William Kochis
Henry Lai Hipp
Aloys McDonald
Clair Mullin
John Payette
Martin Ronan
H. Van Sommes
Mark Thompson
Ludwig Virant
Carl Wenstrup
Cletus Zofkie
Wm. Frischkorn
Raymond Dorger
Robert Thornton
Roy Boggan
Edward Dwyer
Howard Hetzel
John Roth
Eugene Sanders

S. M. C. ALUMNI ASSOCIATION OFFICERS

President—Charles Whalen, '07.
Vice-President—Edward Schoen, '03.
Executive Secretary—Joseph J. Abel, '03.
Financial Secretary—Louis Moosbrugger, '03.
Corresponding Secretary—Harry Finke, 02.
Treasurer—H. L. Ferneding, '90.

Board of Governors

Dayton Alumni — **Out-of-Town Alumni**

Term Expires June, 1921

Charles P. Althoff, '78.
Joseph W. Clemens, '99.
Ferdinand H. Stachler, '09.

Harry C. Busch, '96
Matthias N. Blumenthal, '97.
John F. Maher, '96.

Term Expires June, 1920

H. L. Ferneding, '90.
Charles W. Whalen, '07.
Elmer J. Focke, '08.

Rev. John C. Angel, '02.
William T. Mahony, '07.
John C. Wickham, '09.

Term Expires June, 1919

Joseph J. Abel, '93.
Al J. Ward, '99.
Walter L. Connors, '05.

John F. Maher, '96.
Rev. Martin Varley, '06.
August J. Janszen, '11.

CHICAGO CHAPTER

Pres.—Edw. C. Schoen, '02.
Sec.—Paul Wenigman, '07.
Vice-Pres.—J. Burgmeier, '02.
Treas.—Jos. Windbiel, '92.

CINCINNATI CHAPTER

Pres.—H. J. Robbins, '69. *Sec.-Treas.*—H. C. Busch, '96.

Board of Governors

J. J. Robbins, '69.
Chas. B. Wittrock, '77.
Harry C. Busch, '96.
Fred Topmoeller, '07.
August Janszen, '10.
Louis Homan, '75.
Hugh L. Conway, '91.
Henry G. Janszen, '04.
B. W. Freeman, '08.
Leonard Heile, '12.

COLUMBUS CHAPTER

Pres.—E. F. Dorgan, '76. *Vice-Pres.*—T. Macklin, '12.
Sec.—John W. Keegan, '94. *Treas.*—C. H. Dietrich, '83.

SIXTY-EIGHTH ANNUAL COMMENCEMENT

Thursday Afternoon, June 13, 1918, at 2:00 O'clock

PROGRAM

March—Victorious Legions .....Seredy
S. M. C. Orchestra

National Hymn—The Star Spangled Banner.....Key
Audience and Orchestra

Salutatory .....Maximilian von Mach, '18

Hymn—America, the Land of Liberty.....Graham-Huston
Audience and Orchestra

Address.....Rev. John F. Hickey, Cincinnati, Ohio

March—The Battle Song of Liberty.....Bigelow
Audience and Orchestra

AWARDING OF MEDALS AND HONORS
(High School, Business and Elementary Departments)

March—The Volunteers (Dedicated to the U. S. Shipbuilders) .....Sousa

AWARDING OF MEDALS AND HONORS
(College of Arts and Engineering)

March Song—Our Own Red, White and Blue.....Fillmore
Audience and Orchestra

Presentation of Diplomas

CONFERRING OF DEGREES

St. Mary College March.....Lurz
Audience and Orchestra

Valedictory.....J. Dean McFarland, '18

March—Over the Top.....O'Hara
S. M. C. Orchestra

GRADUATES OF 1918

COLLEGE DEPARTMENT

COLLEGE OF ARTS

FRANCIS J. HEIDER
SYLVESTER JUERGENS
ALVIN KERSTING
JOHN B. KILLORAN
MARTIN LANGHIRT
J. DEAN McFARLAND
JOSEPH TRUNK
LUDWIG J. VIRANT
MAXIMILIAN E. VON MACH
LAWRENCE J. WEBER

COLLEGE OF LETTERS

CLIFFORD STUHLMUELLER

COLLEGE OF ELECTRICAL ENGINEERING

EULOGIUS M. LAUSE
LESLIE F. PORTER
PAUL E. STANTON

COLLEGE OF CHEMICAL ENGINEERING

JOHN L. CROWLEY
JOHN T. ROTH

COLLEGE OF MECHANICAL ENGINEERING

J. RUSSELL GARRISON

HIGH SCHOOL DEPARTMENT

D. HERBERT ABEL
EUGENE C. BACZENAS
EDWARD H. BERGHOFF
RICHARD W. BOWMAN
JOHN B. BREEN
ERNEST O. BROWN
RICHARD J. DEGER
VEEDER R. DONAGHY
EUGENE F. DUNN
W. EDWARD DWYER
GEORGE E. EDMONDSON
FRANK P. ELARDO
STEPHEN J. EMMERICK
JOSEPH FLANAGAN
JOSEPH M. FLYNN
CARL J. HAHN
ALOYSIUS A. HUBER
JUSTIN A. HOCHWALT
THOMAS J. KEHOE
DANIEL KINNINGER
GEORGE W. KIRBY
EDMUND J. KLASS
GERALD I. KRANZ
HENRY O. LAI HIPP
STEPHEN M. MALONEY
ALPHONSE J. MAY
CLAIR T. MULLIN
JOSEPH C. MURPHY
RICHARD P. MUTH
CHARLES R. NIEHAUS
ROBERT M. PAYNE
JOHN F. PAYETTE
ROBERT V. ROTTERMAN
EDWARD G. SANDER
WARD E. SHEARER
JOSEPH C. SHOUVLIN
LAWRENCE P. SINNOTT
IVO J. STELZER
CHARLES J. SULLIVAN
ALBERT J. WALSH
CARL D. WENSTRUP
ANTHONY W. WOLF
FRANK A. ZITKUS
CLETUS C. ZOFKIE

BUSINESS DEPARTMENT

RUSSEL L. ABELE
WILLIAM H. DEDDENS
EDWARD H. DOERGER
ARTHUR D. DONNELLY
HUBERT A. FLINN
ARTHUR F. GOTTRON
PHILIP C. GOTTRON
THOMAS A. HAGAN
HOWARD B. HESS
THEODORE F. HESS
WILBUR F. KARL
URBAN J. McCARTHY
SHERMAN L. O'NEILL
JOHN T. O'NEIL
GEORGE ORCASITAS
JOHN W. QUINLISK
GEORGE J. RODERER
RAYMOND J. WESTBROCK

DEGREES

DEGREES AND GOLD MEDALS OF GRADUATION

COLLEGIATE DEPARTMENT

Gold Medals of Graduation and College Degrees

A Gold Medal of Graduation and the Degree of Bachelor of Arts
with the mention of "Summa cum laude"
Awarded to
J. DEAN McFARLAND, MARION, OHIO

A Gold Medal of Graduation and the Degree of Bachelor of Arts
with the mention of "Summa cum laude"
Awarded to
LAWRENCE WEBER, KENDALLVILLE, INDIANA

A Gold Medal of Graduation and the Degree of Bachelor of Arts
with the mention of "Magna cum laude"
Awarded to
FRANCIS HEIDER, OSBORN, OHIO

A Gold Medal of Graduation and the Degree of Bachelor of Arts
with the mention of "Magna cum laude"
Awarded to
LUDWIG VIRANT, LORAIN, OHIO

A Gold Medal of Graduation and the Degree of Bachelor of Arts
with the mention of "Magna cum laude"
Awarded to
MAXIMILIAN E. VON MACH, DETROIT, MICHIGAN

A Gold Medal of Graduation and the Degree of Bachelor of Arts
with the mention of "Magna cum laude"
Awarded to
ALVIN KERSTING, DAYTON, OHIO

A Gold Medal of Graduation and the Degree of Bachelor of Arts
with the mention of "Magna cum laude"
Awarded to
JOHN B. KILLORAN, LIMA, OHIO

A Gold Medal of Graduation and the Degree of Bachelor of Letters
with the mention of "Magna cum laude"
Awarded to
CLIFFORD STUHLMUELLER, HAMILTON, OHIO

A Gold Medal of Graduation and the Degree of Bachelor in Electrical Engineering
with the mention of "Summa cum laude"
Awarded to
LESLIE PORTER, LOGANSPORT, INDIANA

A Gold Medal of Graduation and the Degree of Bachelor in Electrical Engineering
with the mention of "Magna cum laude"
Awarded to
PAUL STANTON, HAMDEN, OHIO

A Gold Medal of Graduation and the Degree of Bachelor in Electrical Engineering
with the mention of "Magna cum laude"
Awarded to
EULOGIUS LAUSE, DAYTON, OHIO

A Gold Medal of Graduation and the Degree of Bachelor in Chemical Engineering
with the mention of "Summa cum laude"
Awarded to
JOHN T. ROTH, DAYTON, OHIO

A Gold Medal of Graduation and the Degree of Bachelor in Chemical Engineering
with the mention of "Magna cum laude"
Awarded to
JOHN CROWLEY, DAYTON, OHIO

A Gold Medal of Graduation and the Degree of Bachelor in Mechanical Engineering
with the mention of "Magna cum laude"
Awarded to
J. RUSSELL GARRISON, DAYTON, OHIO

The Degree of Bachelor of Arts
with the mention of "Summa cum laude"
Awarded to
SYLVESTER JUERGENS, S. M., DUBUQUE, IOWA

The Degree of Bachelor of Arts
with the mention of "Summa cum laude"
Awarded to
JOSEPH TRUNK, S. M., BROOKLYN, N. Y.

The Degree of Bachelor of Arts
with the mention of "Summa cum laude"
Awarded to
MARTIN LANGHIRT, S. M., BALTIMORE, MARYLAND

The Degree of Civil Engineer
Awarded to
CAPTAIN JAMES E. GRIMES, CHICAGO, ILLINOIS

The Degree of Civil Engineer
Awarded to
HARRY F. FINKE, DAYTON, OHIO

GOLD MEDALS

GOLD MEDALS AND PRIZES IN GOLD

COLLEGIATE DEPARTMENT

The Alumni Diamond Medal for Excellence in Literary Studies and in Contributing Articles to the Exponent, the Official College Magazine

Awarded to
J. DEAN McFARLAND, MARION, OHIO

Gold Medals for Excellence in Conduct during their entire College Career, extending over three years or more, awarded to Boarding Students, have been merited by the following Students:

J. DEAN McFARLAND, MARION, OHIO
JOHN KILLORAN, LIMA, OHIO
CLIFFORD STUHLMUELLER, HAMILTON, OHIO
LESLIE PORTER, LOGANSPORT, INDIANA
LUDWIG VIRANT, LORAIN, OHIO

The Harry C. Busch Excellence Prize of $20 in Gold for Latin, Greek, English and History Studies Pursued During the Entire Collegiate Course

Awarded to
J. DEAN McFARLAND, MARION, OHIO

The Second Elocution Prize

Awarded to
ADRIAN KUHN, DAYTON, OHIO

The Rev. Joseph F. Kelly Theodicy Medal

Awarded to
CLIFFORD STUHLMUELLER, HAMILTON, OHIO

The Gold Medal for Excellence in Christian Doctrine, Donated By William H. Holters, of Covington, Ky.,

Awarded to
CARROLL HOCHWALT, DAYTON, OHIO

The Rev. Charles Polichek Medal for Excellence in History in the Arts and Letters Classes

Awarded to
THE CHICAGO ALUMNI ATHLETIC MEDAL

The Chicago Alumni Medal

Awarded to
FRANCIS HEIDER, OSBORN, OHIO

The Dr. D. G. Reilly Oratory Prize of $30 in Gold

Awarded to
LEO DOLAN, TOLEDO, OHIO

The Dr. D. G. Reilly Oratory Prize of $20 in Gold

Awarded to
JOHN KILLORAN, LIMA, OHIO

The Dr. D. G. Reilly Oratory Price of $10 in Gold
Awarded to
JOSEPH HOLTERS, COVINGTON, KENTUCKY

The Rev. Bernard F. Kuhlman Prize of $15 in Gold for American History
Awarded to
JOHN KILLORAN, LIMA, OHIO

The Rev. Bernard F. Kuhlman Prize of $10 in Gold for American History
Awarded to
RAYMOND GORMAN, LIMA, OHIO

The Alumni Diamond Medal for Excellence in Literary Studies and in Contributing Articles to the Exponent, the Official College Magazine,
Awarded to
J. DEAN McFARLAND, MARION, OHIO

SENIOR ARTS AND LETTERS

The Rev. Charles Polichek Philosophy Prize of $20 in Gold
Awarded to
CLIFFORD STUHLMUELLER, HAMILTON, OHIO

The Rev. Charles Polichek Philosophy Prize of $10 in Gold
Awarded to
LAWRENCE WEBER, KENDALLVILLE, INDIANA

SENIOR CHEMICAL ENGINEERING

The Rev. Charles Polichek Philosophy Prize of $10 in Gold for General Excellence in the Senior Chemical Engineering Class
Awarded to
JOHN T. ROTH, DAYTON, OHIO

SENIOR ELECTRICAL ENGINEERING

The Rev. Charles Polichek Philosophy Prize of $10 in Gold for General Excellence in the Senior Electrical Engineering Class
Awarded to
LESLIE PORTER, LOGANSPORT, INDIANA

JUNIOR CHEMICAL ENGINEERING

The Rev. Charles Polichek Prize of $5 in Gold for General Excellence in the Junior Engineering Class
Awarded to
JOSEPH SCHAEFER, DAYTON, OHIO

JUNIOR ELECTRICAL ENGINEERING

The Rev. Charles Polichek Prize of $5 in Gold for General Excellence in the Junior Engineering Class
Awarded to
JOSEPH HOLTERS, COVINGTON, KENTUCKY

JUNIOR MECHANICAL ENGINEERING

The Rev. Charles Polichek Prize of $5 in Gold for General Excellence in the Junior Mechanical Engineering Class

Awarded to
WALDEMAR SCHMIDT, DAYTON, OHIO

SOPHOMORE ARTS AND LETTERS

The Gold Medal for Excellence in Latin Studies in the Sophomore Arts and Letters, Donated by Rev. Daniel A. Buckley, of Springfield, Ohio,

Awarded to
RAYMOND GORMAN, LIMA, OHIO

SOPHOMORE ENGINEERING

The Thomas J. Coughlin Gold Medal for General Excellence in the Sophomore Engineering Class

Awarded to
WILLIAM BOESCH, DAYTON, OHIO

FRESHMAN ARTS AND LETTERS

The Gold Medal in Memory of George A. Pflaum for Excellence in English Studies in the Freshman Arts and Letters

Awarded to
CARL MUELLER, DAYTON, OHIO

FRESHMAN ENGINEERING

The Gold Medal for General Excellence in Chemistry and Mathematical Studies

Awarded to
MARK THOMPSON, FREDERICKTOWN, MISSOURI

HIGH SCHOOL MEDALS

The Senior Elocution Prizes
First Prize: A Gold Medal

Awarded to
ALBERT WALSH, DAYTON, OHIO

Third Prize

Awarded to
ANTHONY McCARTHY, DAYTON, OHIO

The Junior Elocution Prizes
First Prize

Awarded to
WILLIAM MEYERS, DAYTON, OHIO

Second Prize

Awarded to
ROBERT WINTERMEYER, COVINGTON, KENTUCKY

Third Prize

Awarded to
EUGENE ANDERSON, CINCINNATI, OHIO

A Prize for Excellence in Drumming

Awarded to
ANTHONY FLAHERTY, OWENSBORO, KENTUCKY

The Ancient Order of Hibernians Medal for Excellence in Irish History

Awarded to
LAWRENCE BARRETT, MIDDLETOWN, OHIO

The Ladies' Auxiliary of the Ancient Order of Hibernians' Medal

Awarded to
CARROLL DEERY, HARRISON, OHIO

The Gold Medal for General Excellence in the Fourth High

Awarded to
D. HERBERT ABEL, DAYTON, OHIO

The Gold Medal for General Excellence in Third High-A

Awarded to
FRANCIS FARLEY, DAYTON, OHIO

The Gold Medal for General Excellence in the Third High-B

Awarded to
ALVIN RABE, COVINGTON, KENTUCKY

The Gold Medal for General Excellence in Second High-A

Awarded to
JOSEPH SCHWIND, DAYTON, OHIO

The Gold Medal for General Excellence in Second High-B

Awarded to
LAWRENCE TIERNEY, DAYTON, OHIO

The Gold Medal for General Excellence in Second High-C

Awarded to
BENJAMIN SEIDENSTICK, DAYTON, OHIO

The Gold Medal for General Excellence in Second High-D

Awarded to
JOSEPH DEDDENS, CINCINNATI, OHIO

The Gold Medal for General Excellence in the First High-A

Awarded to
ALBERT FREIBERG, CHICAGO, ILLINOIS

The Gold Medal for General Excellence in the First High-B

Awarded to
ERNEST LAMOUREUX, DAYTON, OHIO

The Gold Medal for General Excellence in the First High-C

Awarded to
LIONEL BRADMILLER, DAYTON, OHIO

The Gold Medal for General Excellence in the First High-D

Awarded to
ALBERT TISCHER, DAYTON, OHIO

BUSINESS DEPARTMENT

The Gold Medal for General Excellence in the Second Business

Awarded to
GEORGE RODERER, DAYTON, OHIO

The Gold Medal for General Excellence in the First Business

Awarded to
MANUEL DE CASTRO, HAVANA, CUBA

COLLEGE OF ARTS, LETTERS AND SCIENCE

The College of Arts, Letters and Science purposes to offer to the student the time and opportunity to further cultivate and to bring to maturity the qualities of mind and heart and will that have been nourished to great extent in the Preparatory or High School Department. To attain this end a greater latitude is permitted in the selection of studies, which are divided into three groups, leading to the degrees Bachelor of Arts, Bachelor of Letters, and Bachelor of Science. The selection of studies is made with the advice of and in consultation with members of the faculty designated for this purpose, and with the approval of the Prefect of Studies. Christian Doctrine, Philosophy, and English are considered fundamental studies for the three degrees. Latin and Greek are characteristic studies for students wishing to obtain the degree of Bachelor of Arts. Latin, History and Modern Languages are characteristic studies for candidates aspiring to the degree of Bachelor of Letters.

Candidates desiring a course in General Science with a view of preparing for teaching the same, may arrange for a course with the faculty. An extensive study of mathematics will form an essential feature. Upon the successful completion of the course, the degree of Bachelor of Science will be awarded.

PRE-MEDICAL COURSE

The Pre-Medical Course at St. Mary College was introduced in 1915 to fill the needs of the graduates of high schools who desire to prepare themselves for entrance into the best medical schools of the country. A high school diploma of graduation is no longer sufficient to meet the entrance requirements of the better grade of colleges of medicine. The entrance requirements have been raised these recent years. Instead, a degree of bachelor of arts or letters is required, or the preparation for entrance to the colleges of medicine through the course of studies known as the Pre-Medical Course. Qualitative Chemistry, Qualitative Analysis, Quantitative Analysis, Organic Chemistry, College Physics and Biology are the scientific studies insisted upon to fit the student who contemplates taking up the medical profession Latin, Philosophy and English are required, with a choice of one of the modern languages, French, German or Spanish. Greek and History are optional. The laboratory practice in Chemistry, Physics and Biology is outlined and rigorously insisted upon to accomplish the end of the Pre-Medical Course,—to prepare the student not only to master the theory

of science, but to make him intimately acquainted through the practical work of the laboratory, so that he may be fully fitted to continue his studies in the best colleges of medicine in the country.

All branches of study, especially that of Biology, are open to the general student who wishes to acquire a liberal education. The study of Biology is especially recommended to those who wish to specialize in experimental psychology.

REQUIREMENTS OF ADMISSION to the COLLEGE OF ARTS, LETTERS, SCIENCE AND THE PRE-MEDICAL COURSE

Candidates for admission to the College of Arts, Letters and Science and Pre-Medical Course must be sixteen years old. They must give evidence of having completed satisfactorily an amount of preparatory work equal to sixteen units. By a unit is meant a subject pursued throughout the year comprising four or five recitations per week. Studies pursued for half a year entitle to half a unit.

Blanks of admission will be supplied by St. Mary College, which must be filled out and signed by the proper authority of the preparatory school or high school.

The subjects of the sixteen units required for admission to the College of Arts, Letters, and Science, and the Pre-Medical Course are the following:

GROUP I.	REQUIRED SUBJECTS	11 UNITS
Geometry	Plane	1 unit
Algebra	To Quadratics	1 unit
English	Composition and Rhetoric	2 units
Latin	Grammar, Version, Composition	4 units
Languages	Greek or French or German	2 units
History	Ancient and Modern	1 unit
Sciences	Physical or Natural	1 unit

GROUP II.	OPTIONAL SUBJECTS	5 UNITS
Algebra	Through Quadratics	½ unit
Geometry	Solid	½ unit
Latin	Advanced	1 to 4 units
German	Advanced	1 to 4 units
Greek	Elementary	1 to 3 units
Trigonometry	Plane	½ unit
History	American, Civics	1 unit
Astronomy	Descriptive	½ unit
Descriptive		½ unit
Freehand Drawing		½ unit
Mechanical Drawing		½ unit
Botany, Zoology, Physiology, Physiography, each		½ unit

FACULTY

Rev. Bernard P. O'Reilly, S. M.
President

Rev. Joseph A. Tetzlaff, S. M.
Vice-President
Latin, History

Rev. Aloys. Schratz, S. M.
Philosophy, Latin

Bro. William Wohlleben, S. M.
Chemistry, Geology

Bro. Francis J. O'Reilly, S. M.
English

Rev. Francis Kunnecke, S. M.
Religion, Latin, Political Economy, Sociology

Bro. William Beck, S. M.
Biology

Rev. Clement Wulf, S. M.
Greek

Bro. Martin Werneburg, S. M.
Higher Mathematics, French

Bro. Frederick C. Hartwich, S. M.
Bro. Thomas Poitras, S. M.
French

Bro. John Gareis, S. M.
Librarian

Charles Whalen, B. A., LL. B.
Elementary Law

Bro. Thomas Seebald, S. M.
Prefect of Resident Students

U. S. Army Officer
Instructor in Military Training

Studies Prescribed for the Degree of Bachelor of Arts

FRESHMAN YEAR

First Term

	Periods
Religion (20)	2
English (50 a, b, c, d)	4
History (80)	2
Latin (30)	7
Greek (40)	6

Second Term

	Periods
Religion (20)	2
English (50 a, b, c, d)	4
History (81)	2
Latin (31)	7
Greek (41)	6

SOPHOMORE YEAR

First Term

	Periods
Religion (22)	2
English (52 a, b, c)	4
History (82)	2
Latin (32)	7
Greek (42)	6
Logic (25)	2

Second Term

	Periods
Religion (22)	2
English (53 a, b, c)	4
History (83)	2
Latin (33)	7
Greek (43)	6
Logic (25)	2

JUNIOR YEAR

First Term

	Periods
Religion (23)	2
Psychology (26)	6
English (54 a, b, c)	4
Latin (34)	7
Greek (44)	6
History (84)	2
*Political Economy (87)	2

Second Term

	Periods
Religion (23)	2
Psychology (26)	6
English (55 a, b, c)	4
Latin (35)	7
Greek (45)	6
History (85)	2
*Political Economy (87)	2

SENIOR YEAR

First Term

	Periods
Theodicy (24)	2
Metaphysics (27)	6
Ethics (28)	1
English (56 a, b)	4
Latin (36)	7
Greek (46)	6
*Sociology (88)	2

Second Term

	Periods
Theodicy (24)	2
Hist. of Phil. (29)	6
Ethics (28)	1
English (57 a, b)	4
Latin (37)	7
Greek (46)	6
*Sociology (88)	2

* Optional.

Studies Prescribed for Degree of Bachelor of Letters

FRESHMAN YEAR

First Term

	Periods
Religion (20)	2
English (52 a, b, c, d)	4
History (80)	2
Latin (30)	7
French (70)	3
German (60)	2

Second Term

	Periods
Religion (20)	2
English (52 a, b, c, d)	4
History (81)	2
Latin (31)	7
French (71)	3
German (61)	2

SOPHOMORE YEAR

First Term

	Periods
Religion (22)	2
English (52 a, b, c)	4
History (81)	2
Latin (32)	7
French (72)	3
German (62)	2
Logic (25)	2

Second Term

	Periods
Religion (22)	2
English (53 a, b, c)	4
History (83)	2
Latin (33)	7
French (73)	3
German (63)	2
Logic (25)	2

JUNIOR YEAR

First Term

	Periods
Religion (23)	2
English (54 a, b, c)	4
Psychology (26)	6
Latin (34)	7
French (74)	3
German (64)	2
History (84)	2
*Political Economy (87)	2

Second Term

	Periods
Religion (23)	2
English (55 a, b, c)	4
Psychology (26)	6
Latin (35)	7
French (75)	3
German (65)	2
History (85)	2
*Political Economy (87)	2

SENIOR YEAR

First Term

	Periods
Religion (24)	2
English (56 a, b)	4
Ethics (28)	1
Metaphysics (27)	6
Latin (36)	7
French (76)	3
German (66)	2
*Sociology (8)	8

Second Term

	Periods
Religion (24)	2
English (57 a, b)	4
Ethics (28)	1
Philosophy (29) History	6
Latin (37)	7
French (76)	3
German (66)	2
*Sociology (8)	8

* Optional.

COLLEGE OF ARTS AND LETTERS—Schedule of Recitations

Hrs.	Classes	Mon.	Tues.	Wed.	Thur.	Fri.	Sat.
8:00	Fresh Soph. Junior Senior		——— ——— Philosophy Philosophy	Dogma Dogma Dogma Ethics		Dogma Dogma Dogma Ethics	English English English English
8:45	Fresh Soph. Junior Senior	——— Greek Philosophy Philosophy	——— Greek Philosophy Philosophy	——— Greek Philosophy Philosophy	Latin Latin Latin Latin	——— Greek Philosophy Philosophy	——— Greek Philosophy Philosophy
9:45	Fresh Soph. Junior Senior	Latin Latin Latin Latin	Latin Latin Latin Latin	Latin Latin Latin Latin		Latin Latin Latin Latin	Latin Latin Latin Latin
10:30	Fresh Soph. Junior Senior	Greek ——— Geology Geology	Greek Logic ——— ———	Greek ——— ——— ———		English ——— ——— ———	Greek ——— Greek Greek
11:15	Fresh Soph. Junior Senior	French French French Biology	——— Logic ——— ———	French French French ———		French French French ———	
1:30	Fresh Soph. Junior Senior	——— ——— Greek Greek	Law (1:00-2:00) ——— Greek Greek	——— ——— Greek Greek		——— ——— Greek Greek	
2:15	Fresh Soph. Junior Senior	English English English English	History History History History	English English English English	Biological Laboratory (1:00—5:00)	History History History History	
5:00		Latin	Greek	English		Latin	Greek

FACULTY

REV. BERNARD P. O'REILLY, S. M.
President

REV. JOSEPH A. TETZLAFF, S. M.
Vice-President
Latin, History

REV. ALOYS. SCHRATZ, S. M.
Philosophy

BRO. WILLIAM WOHLLEBEN, S. M., M. SC., PH. D.
Chemistry

BRO. WILLIAM BECK, S. M., M. SC.
Biology, Physics

REV. FRANCIS KUNNECKE, S. M., M. A.
Political Economy, Sociology

BRO. FRANCIS J. O'REILLY, S. M., M. A.
English

BRO. MARTIN WERNEBURG, S. M., M. SC.
BRO. THOMAS POITRAS, S. M.
French

REV. FRANCISCO VILLASENOR
Spanish

CHARLES WHALEN, B. A., LL. B.
Elementary Law

U. S. ARMY OFFICER
Instrubtor in Military Training

STUDIES PRESCRIBED FOR THE PRE-MEDICAL COURSE

Freshman Year

First Term

Subjects	Weeks	Periods per Week
Religion (20)	17	2
Qualitative Chemistry (92)	17	3
Qualitative Analysis (93)	17	3
Logic (25)	17	2
English (50 a, b, c, d)	17	4
Latin (30)	17	7
†French (70)	17	3
†German (60)	17	3
†Spanish (67)	17	3
*Greek (40)	17	6
*History (80)	17	2

Second Term

Religion (20)	17	2
Qualitative Chemistry (92)	17	3
Qualitative Analysis (93, 94)	17	3
Logic (25)	17	2
English (50 a, b, c, d)	17	4
Latin (31)	17	7
†French (71)	17	3
†German (61)	17	3
†Spanish (67)	17	3
*Greek (41)	17	6
*History (81)	17	2

* Optional. † Choice of one modern language.

Sophomore Year

First Term

Subjects	Weeks	Periods per Week
Religion (22)	17	2
Quantitative Analysis (95)	17	7
Organic Chemistry (97)	17	3
Physics (98)	17	3
Physical Laboratory (99)	17	6
Biology (89)	17	6
Philosophy (26)	17	8
English (52 a, b, c)	17	3
Latin (32)	17	7
†French (72)	17	3
†German (62)	17	2
†Spanish (68)	17	3
*Greek (42)	17	6
*History (81)	17	2

Second Term

Religion (22)	17	2
Quantitative Analysis (96)	17	7
Organic Chemistry (97)	17	3
Physics (98)	17	3
Physical Laboratory (99)	17	6
Biology (90)	17	6
Philosophy (27)	17	8
English (53 a, b, c)	17	3
Latin (33)	17	7
†French (73)	17	3
†German (63)	17	2
†Spanish (68)	17	2
*Greek (43)	17	6
*History (83)	17	2

* Optional. † Choice of one modern language.

PRE-MEDICAL DEPARTMENT—Schedule of Studies for Pre-Medical Course

Hrs.	Classes	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.
8:00	Fresh. Soph.			Moral Moral		Moral Moral	English ———
8:45	Fresh. Soph.	——— Organic Chem.	——— Organic Lab.	——— Organic Chem.	Latin Latin	——— Organic Chem.	——— Organic Lab.
9:45	Fresh. Soph.	Latin Physics	Latin Organic Lab.	Latin Physics		Latin Physics	Latin Drganic Lab.
10:30	Fresh. Soph.	——— Latin	——— Latin	——— Latin		English Latin	——— Latin
11:15	Fresh. Soph.	French French		French French	Biology	French French	
1:00 to 3:00	Fresh. Soph.	English (2:15-3:00) Quant. Alayysis	Qual. Analysis Quant. Analysis	English (2:15-3:00) Quant. Analysis	Biological Lab. (1:00-6:00)	Qual. Analysis Quant. Analysis	Qual. Analysis Quant. Analysis

SUBJECTS OF INSTRUCTION

Moral

I Year. Two Periods a Week.

20. Nature and Distinction of Laws; Conscience; Sin; Virtue; Precepts of the Decalogue; Forms of Worship; Oaths and Vows; Obligation of Hearing Mass; Suicide; Murder; Scandal; Dueling; Duty and Right; Violation of Rights; Restitution; Contracts; Fraud; Lying; Detraction; Calumny; Violation of the Secret; Commandments of the Church; Fasting and Abstinence; Laws of Marriage; Christian Perfection; Evangelical Counsels; States of Life; Vocation. The Sacraments: Confession, Holy Communion, Holy Orders, Matrimony. Feasts, Ceremonies and Religious Practices of the Church.

Dogma

II Year. Two Periods a Week.

22. The Holy Religion; God, His Essence and Attributes; Blessed Trinity; Creation of the World; the Angels; Man; Original Sin; the Incarnation; Jesus Christ in Prophecy, on Earth, in Glory; the Work of Jesus Christ; Grace; Merit; Essence and Existence of the Sacraments, Effects and Efficacy of the Sacraments; Indulgences; Virtue; Four Last Things.

Christian Apologetics

III Year. Two Periods a Week.

23. 1. Religion, Revelation, Function of Reason in matters of Faith.

2. Historical value of the Sacred Scriptures. The Pentateuch; the Pentateuch and Science—Geology, Astronomy, Biology, Paleontology. The Bible and modern discoveries in Egypt, Assyria, and Chaldea. Historical value of the Gospels.

3. Demonstration of the Divinity of the Christian religion. Miracles and Prophecies, Phenomenon of Hypnotism. Men proofs of the Divinity of the mission of Jesus Christ and His work, the establishment of the Christian Religion. Christianity and Buddhism, Christian Science and Faith Cure. Truth of the Catholic Religion. (1) The Roman Catholic Church possesses the four positive marks of the true Church. Protestantism. The Original Schismatic Church. Prerogatives conferred by Jesus Christ upon the Church. (2) Accusations brought against the Church. Intolerance; the Vicious Circle; the Inquisition; Galileo; Massacres of St. Bartholomew; Crusades; Wars of Religion; Revocation of the Edict of Nantes; Temporal Power of the Popes; Authority of the Popes in the Middle Ages; Bad Popes; the Church and Civilization.

Rational Theology

Senior Year. Two Periods a Week.

24. 1. Definition and scope. Relations to Dogmatic Theology. The Existence of God. Necessity of demonstrating the existence of God. Demonstration; arguments from motion, contingency, casuality, axiomatic truths, duty, moral sanctions, relativity, design, ontological argument. Atheism; Idealistic Atheism, Materialistic Atheism, Practical Atheism, Religious and Moral Consequences of Atheism.

2. Nature and attributes of God; Manner of Determining the Attributes of God; the Essence of God, and His metaphysical attributes, simplicity, perfection; idea of the infinite; immutability, eternity, unity, omnipresence. Moral attributes of God or the divine personality; God's knowledge; divine knowledge and human knowledge; divine knowledge and human liberty; divine will. Pantheism among the ancients, in the Middle Ages. Modern Pantheists, Spinoza's theory of substance, Fichte, Shelling, Hegel, Anthropomorphism.

3. Creation and Evolution: Creation according to St. Thomas; evolution according to the Fathers; evolution and the Bible.

PHILOSOPHY

Sophomore Year. Logic. Two Periods a Week.

25. General Introduction; Object of Logic; Division of Logic; Plan of Logic.

Formal Logic: On Concepts and Terms; The Proposition; The Syllogism.

Applied Logic or Methodology: On Method in General; Demonstration; Mathematical Demonstration; Method of the Physical Sciences; Method of the Natural Sciences; Method of the Moral Sciences; Errors and Sophisms; Truth and Science; The Principal Scientific Hypotheses.

Junior Year. Psychology. Six Periods a Week.

26. Object of Psychology: The Facts of Consciousness; The Faculties of the Soul; the Soul; Method of Experimental Psychology.

Treatise on Sensibility: Sense Perception; Consciousness of Sensation; Pleasure and Pain; the Mental Image; the Memory; Association of Ideas; Instinct; Appetency and Passion; the Motor Faculty.

Treatise on the Intellect: Attention; Abstraction; Generalization; Conception; Judgment; Reasoning; First Principles.

Treatise on the Will: Nature of the Will; Moral Liberty; Determinism.

Senior Year. Metaphysics. Six Periods a Week.

27. General Introduction; Nature of the Subject; Certitude of Metaphysical Inquiry; The Method of Metaphysics.

TREATISE ON ONTHOLOGY: Nature of Being; Attributes of Being; The True; The Beautiful; Art; The Esthetic Faculties; The Good.

TREATISE ON COSMOLOGY: The Existence of Eternal Reality; Matter; Motion; Life.

TREATISE ON RATIONAL PSYCHOLOGY: Nature of the Soul; The Union of the Body and Soul; The Soul Separated from the Body.

TREATISE ON THEODICY: The Existence of God; Nature and Attributes of God; Pantheism; Creation and Evolution.

Ethics.

28. A General View of the Science of Ethics. Conscience; Good and Duty; Merit; Responsibility and Sanction; Individual Ethics; Domestic Ethics; Social Ethics; Religious Ethics; Ethics and Political Economy.

29. General Introduction; Science according to Aristotle; Science according to Bacon; Science according to Comte; Definition of Philosophy; Oriental Philosophy; Greek Philosophy before Socrates; Plato, Aristotle; Philosophy of Rome; Scholastic Philosophy; Philosophy during the Renaissance; Bacon; Descartes, Malebranche, Spinoza, Leibnitz, Locke, Berkeley, Hume, Reid, Condillac, Kant; Contemporaneous Philosophy, Neo-Scholastic Philosophy.

LATIN

Freshman Year. Six Periods a Week.

30. Cicero, Pro Marcello; Livy, Book IX; Vergil, Georgics; Horace, Odes.

Latin versification two hours a week. Latin composition, two hours a week.

31. Cicero, De Imperio; Livy, Book I and XXI; Horace, Select Odes.

Sight Reading, New Testament. Latin versification two hours a week. Latin composition, two hours a week. Aids to Latin Prose Composition, J. A. Kleist, S. J. Latin Literature.

Sophomore Year. Six Periods a Week.

32. Horace, Arts Poetica; Tacitus, Agricola.

Latin composition, two hours a week.

Latin versification, twice a month.

33. Tacitus, Annals, Horace, Epistles and Satires. Bimonthly exercise in Latin versification. Latin composition, two hours a week. Aids to Latin Prose Composition, J. A. Kleist, S. J.

Junior Year. Seven Periods a Week.

Pliny, Letters; Juvenal, Satires; Seneca, Essays.

Latin Literature, Augustan writers and writers of the subsequent epochs.

35. Cicero, De Officiis; Plautus, Captivi; Selections from the Fathers.

Comparative study of Greek and Latin Literatures. Weekly exercise in Latin composition and translation. Bimonthly exercise in Latin versification.

Latin conversation is a feature in all the classes.

Senior Year. Seven Periods a Week.

36. Terence, Andria; Quintilian, Books X and XII. Weekly exercises in Latin composition and translation. Bimonthly exercises in Latin versification.

37. Cicero, Quaestiones Tusculanae; Seneca, Three Tragedies. Weekly exercises, as above.

GREEK

Freshman Year. Six Periods a Week.

40. Grammar (White): Inflection; declension; conjugation of paideuo. Translation and themes. New Testament (N. J. Stoffel, C. S. C.)

41. Grammar: From the conjugation of paideuo to end of inflections. Versions and themes.

Aesop, Fables. Greek Literature.

Sophomore Year. Six Periods a Week.

42. Inflections reviewed. Syntax of articles, noun, pronoun. Translation exercises based on the authors. Greek Literature.

Xenophon, Anabasis; Lucian, Dialogues; Herodotus, Extracts.

43. Grammar; Syntax to end. Translation exercises based on the authors.

Aeschylus, Agamemnon, or Persae, or Prometheus Vinctus; St. John Chrysostom, Eutropius; Homer, Iliad, Book I.

Junior Year. Five Periods a Week.

44. Grammar: Review of entire Syntax. Translation and composition based on the authors.

Sophocles, Oedipus Rex; Philoctetes; Plato, Apology; Homer, Odyssey, Book I.

45. Euripedes, Iphigenia in Aulis, or Medea, or Alcestis; Demosthenes, Philippics or De Corona; Aristophanes, Birds.

Senior Year. Five Periods a Week.

46. Plutarch; Lives; Plato, Phaedo. Lyrics from Greek poets; Sappho, Pindar.

ENGLISH

Freshman Year. Four Periods a Week.

50a. *Literary Criticism.*

Sentence; Paragraph; Complete Composition; Sublimity; Beauty; Wit and Humor; Melody; Personality in Literary Art.

The Letter of Friendship; News Letter; Open Letter; History of the Letter; The Letter in Hebrew, Greek, and Latin Literature.

Letters of Cicero, Pliny, Lord Chesterfield, Pascal, Newman.

50b. *Oratory.*

Kinds of Oratory: Deliberative; Forensic; Pulpit; Demonstrative—the eulogy, the commencement address, the political speech, the platform oration.

The Division of the Oration: The Introduction; The Discussion; The Conclusion. Style in Oral Discourse: The Oratorical vs. the Essay Style; Qualities of Style—clearness, sequence, unity, emphasis; Distinct Qualities of Style in Persuasion. The Making of an Orator: General Preparation. The Writing of the Oration: Choosing a Subject; Gathering Material; Constructing the Outline; Writing the Oration.

For Reference: Depew, Library of Oratory; Bautain, Art of Speaking; Raymond, Orator's Manual; Coppens, Oratorical Composition; Shurter, Public Speaking.

50c. *Poetry.*

THE NATURE OF POETRY. The Definition of Poetry. Emotion in Poetry: Intensity of Emotion; Variety of Emotion. Imagination in Poetry: The Imaginative Faculty in Poetry; The Imaginative Treatment of Poetic Subjects. Thought in Poetry; Originality of Thought; Truth of Poetic Thought; Idealization; Realism. Expression: The Medium of Expression; Thought and Expression; Aspects of Expression; Four Chief Poetic Tendencies.

50d. *English Classics.*

As You Like It; Speeches of Burke, O'Connell, Webster, Cicero, Demosthenes.

51a. *Literary Criticism.* (A continuation of Course 50a.)

The ESSAY: Modern Use; Tracts and Pamphlets; Editorials; Representative Essayists—Plutarch, Xenophon, Cicero, Pliny, Bacon, Addison, Macaulay, Matthew Arnold.

BIOGRAPHY: Sources of Biography; Kinds—

Obituary, Eulogy, Diatribe, Philippic, Critique, Private Papers, Private Journal, Memoirs, Letters. Representative Biographers—Boswell, Morley, Plutarch, Southey.

HISTORY: Historical Interpretation; Prejudice; Modern Scientific Method.

Noted Historians—Guizot, Hume, Macaulay, Hallam, Linguard, Prescott, Bancroft.

POETRY: Elements of Versification; The Epic, Lyric, Pastoral, Ode, Sonnet. Characteristics of authors and general poetic values.

51b. *Public Speaking.* (A continuation of Course 50b.)

Planning the Speech; The Conversational Mode; Action; Gesture; The Breath; Enunciation; Pronunciation; Pitch; Time; Quality; Force; Emphasis.

Public Speaking; Debating; Extempore Speaking; Principles of Argumentation.

For Reference: Shurter, Public Speaking; Fulton and Trueblood, Public Speaking; Robinson, Effective Speaking; Newton, Effective Speaking; Shurter, Extempore Speaking; Pattee, Practical Argumentation; Denney, Duncan and McKinney, Argumentation and Debate.

51c. *Poetry.* (A continuation of Course 50c.)

THE SPECIES OF POETRY. Narrative Poetry: The Epic—the end, the action, unity, development; The Primitive Epic; The Epic of Art; Other Narrative Forms. Dramatic Poetry: Tragedy—the end, the persons, the fable, the structure; Ancient Greek Tragedy; Comedy; Ancient Classic Comedy. Lyric Poetry: Definition; Classification; General Characteristics. Minor Species: Didactic Poetry; Satire; Pastoral Poetry; Dramatic Lyrics and Narratives.

VERSIFICATION. Metre: Measurement by Accent; The Metrical Foot and Verse; Caesura; Emphasis; The Stanza and Blank Verse. Verse and Melody: Rhyme; Quantity; Alliteration and Assonance; Onomatopoea.

51d. *English Classics.*

Richard III; The Tempest; Canterbury Tales; Bacon, Emerson, Spalding, Azarias, Essays; De Coverly Papers.

Sophomore Year. Four Periods a Week.

52a. *Readings in English Literature.*

In this course of Reading in English Literature, works of authors are treated as living organic wholes. The aim of the course is to create a love of reading and the habit of it through the study

of the meaning and significance of the works of authors. The course:

I. The Period of Restoration: Anglo-Saxon or Old English Literature (Widsith, Beowulf, Bede, Caedmon, etc.); Anglo-Norman Literature (Sir Gawain and the Greek Knight, Romances, Songs).

II. The End of the Middle Ages: Fourteenth Century Poetry (Chaucer); Fifteenth Century Prose (Malory); Fifteenth Century Poetry (The Nut Brown Maid, Popular Ballads).

III. The Elizabethan Age: Transitional Poetry (Wyatt, Surrey, Sackvilie); Elizabethan Prose (Ascham, Lyly, Sidney, Hakluyt); Elizabethan Poetry (Spenser); Elizabethan Lyrics (Gascoigne, Dyer, Raleigh, Peele, Greene, etc.); Elizabethan Drama (Shakespeare).

IV. Cavaliers and Puritans: Seventeenth Century Lyrics (Campion, Jonson, Donne, Herrick, etc.); Seventeenth Century Prose (Bacon, Browne, Walton, Fuller, Taylor); Puritanism in Prose (Bunyan); Puritanism in Poetry (Milton).

V. The Age of Classicism: Beginning of Classicism (Dryden); Classical Prose and Verse (Defoe, Swift, Steele, Addison, Pope); Early Poetry of the Romantic Reaction (Thomson); Minor Poets—Young to Chatterton (Young, Gay, Blair, Collins, Gray, etc.); Prose of the Later Eighteenth Century (Johnson, Boswell, Burke, Gibbon); Later Poetry of the Romantic Reaction (Goldsmith, Cowper, Crabbe, Blake, Burns).

52b. *Journalism.*

This course does not aim to send out full-fledged newspaper men. It merely endeavors to make the road to the practice of journalism the easier by removing many of the difficulties in the path, and it does this by teaching the young aspirant some of the things he will be expected to do and the best methods of doing them. The course should prove to be of value to young men of all professions, who will find it to be to their personal interest to write for newspapers at times throughout their lives. Moreover, the course will cause the average college young man to lose his grandiloquent cast of style, as his mind grows more discriminating and analytical through the course in Journalism. The course:

Journalistic Style; Words and Phrases; The Structure of a News Story; Gathering News; Types of News Stories; The Reporter; The City Editor; Other Desk Positions; Interviews.

52c. *English Classics.*

Hamlet, King Lear; Spenser, Faerie Queen; Milton, Paradise Lost, Lycidas.

53a. *Readings in English Literature.* (A continuation of Course 52a.)

VI. The Age of Romanticism (Wordsworth, Coleridge, Scott); Early Nineteenth Century Essayists (Lamb, De Quincey, Hazlitt); The Revolutionary Poets (Byron, Shelley); The Poet of Beauty (Keats); Nineteenth Century Lyrics (Southey, Landor, Campbell, Moore, etc.).

VII. The Victorian Age: Victorian Essayists (Macaulay, Carlisle, Ruskin, Newman, Arnold, Huxley); Victorian Poetry (Tennyson, Browning, Arnold, Rossetti, Morris, Swinburne, Meredith); Later Victorian Prose (Pater, Stevenson).

For Reference: Garnett and Goss, Illustrated History of English Literature; Jusserand, Literary History of the English People; Saintsbury, History of Elizabethan Literature; Stedman, Victorian Poets; Hazlitt, Lecture on the English Poets; Dowden, Studies in Literature; Minto, Characteristics of English Poets; Courthope, History of English Poetry; Lowell, Literary Essays; Palgrave, Golden Treasury; Jenkin's Literature; Brooke, Early English Literature; Crawshaw, The Making of English Literature; Stedman and Hutchinson, Library of American Literature; Johnson, History of American Literature; Underwood, American Literature; Heydrick, Literature; Page, Chief American Poets; Trent and Wells, Colonial Prose and Poetry; Stedman, An American Anthology; Brownell, American Prose Masters.

53b. *Journalism.* (A continuation of Course 52b.)

Dramatic Criticism and Other Criticism; Editorials, Paragraphs and Bureaus; Head Writing and Make-up; Getting the Paper Printed; The American Newspaper; Country Journalism.

For Reference: Harrington and Frankenberg, Essentials in Journalism; Harrington, Typical Newspaper Stories; Spencer, News Writing; Cunliffe and Lomer, Writing of Today; Ross, The Writing of News; Thorpe, The Coming Newspaper.

53c. *English Classics.*

Pope, The Rape of the Lock; Milton, Ode on Immortality; Wordsworth, Keats, Shelley, and Browning.

Poems; Tennyson, The Princess, The Idylls of the King.

Junior Year. Four Periods a Week.

54a. *The Short Story.*

The Rise and Place of the Short Story; Nature and Kinds of the Short Story.

Structure of the Short Story; Theme, Material, Plot, Plot Development, Opening of the Story, Setting and Body of the Story.

For Reference: cf 55a.

54b. *Study of the Novel.*

Origin of the Novel: Elements, Egyptian Tales, Greek Romances, Mediaeval Conglomerates, The Modern Novel.

For Reference: cf 55b.

54c. *English Classics.*

Newman, Idea of a University; Scott, Quentin Durward; Thackeray, Henry Esmond; Dickens, Pickwick Papers; Lowell, Among My Books; Holmes, Poems; Emerson, Essays.

55a. *The Short Story.* (A continuation of Course 54a.)

Structure (cont.)—Characters, dialogue, title, style, special characters.

Preparation for Authorship—Originality, talent, acquiring of vocabulary, the study of the Short Story.

The Manuscript and its Market—Writing the Story, Selling the Story.

For Reference: Brander Matthews, The Short Story, the Philosophy of the Short Story; Esenwein, Writing the Short Story, Studying the Short Story, Short-Story Masterpieces; Canby, A study of the Short Story; Pitkin, Short-Story Writing.

55b. *Study of the Novel.* (A continuation of Course 54b.)

Development of the Modern Novel: Plot; Motive and Verisimilitude; Character; Background; Style.

For Reference: Horne, The Technique of the Novel; Hamilton, Materials and Methods of Fiction; Stevenson, A Gossip on Romance; Stoddard, A Study of the Novel; Saintsbury, The Historical Novel; Brander Matthews, Aspects of Fiction, The Historical Novel; Perry, A Study of Prose Fiction; Whitcomb, The Study of a Novel; Jack, Essays on the Novel; Dawson, Makers of English Fiction; Phelps, Essays on Modern Novelists.

55c. *English Classics.*

Stedman, Poems; Bulwer Lytton, Last Days of Pompeii; Jane Porter, Scottish Chiefs; Othello; Reading of Modern Novels.

Senior Year. Four Periods a Week.

56a. *The Study of the Drama.*

The Drama—Its Law; Dramatic Unity; Nature and Sources of Tragic Effect; Nature and Sources of Comic Effect.

Its Technique: The Two Types of Drama; Logical Divisions of the Drama; Mechanical Divisions

of the Drama; Character-Treatment; Plot in Comedy; Character-Treatment in Comedy.

COMPARATIVE STUDY—THE ANCIENT DRAMA.

For Reference: Moulton, Ancient Classical Dramas; Campbell, Guide to Greek Tragedy; Donaldson, The Theatre of the Greeks; Symmonds, The Greek Poets; Jevons, History of Greek Literature; Quinn, Helladian Vistas.

Roman Tragedy and Comedy: Origin and Development. Famous Authors.

For Reference: Brander Matthews, Development of the Drama; Seller, The Roman Poets of the Republic; Riley, Translation of Terrence and Plautus; Crutwell, History of Roman Literature.

Miracle and Mystery Plays: Origin and Development.

For Reference. Pollard, Miracle Plays.

French Comedy: Origin and Development.
Author: Moliere.

For Reference: Fortier, Histoire de la Literature Francaise; Translation of Moliere's Works.

THE MODERN DRAMA.

French Tragedy: Origin and Development.
Authors: Corneille, Racine.

For Reference: Baudrillard, The Catholic Church, Renaissance and Protestantism; Fortier, Histoire de la Literature Francaise.

Spanish Drama: Origin and Development.
Authors: Lope de Vega, Calderon.

For Reference: Tichnor, History of Spanish Literature; McCarthy, Dramas of Calderon, Translated.

English Drama: Origin and Development.
Authors: Greene, Lyle, Marlowe, Shakespeare, Beaumont and Fletcher, Ben Johnson, Dryden, Wycherly.

For Reference: Moulton, Shakespeare as a Dramatic Artist; University Edition of Shakespeare's Works; Pollard, English Miracle Plays, Moralities and Interludes.

German Drama: Origin and Development.
Authors: Lessing, Schiller, Goethe.

For Reference: Baumgartner, Life of Goethe; Carlyle, Essays.

The Modern Romantic School. Authors: Rostand, Phillips, Ibsen, Sudermann, etc.

For Reference: Brander Matthews, Development of the Drama.

56b. *English Classics.*

Midsummer Night's Dream, Twelfth Night; Azarias, The Philosophy of Literature. Reading from Sophocles, Aristophanes, Terence, Plautus, Moliere, Corneille, Racine.

57a. *The Study of Foreign Literature.*

The Italian Renaissance: Age of Dante; Italian Influence on English Literature.

The Age of Classicism: French Influence on English Literature.

Comparative Study of Modern Literatures: English, French, German, Spanish, Italian.

For Reference: Botta, Handbook of Universal Literature; Wright, Masterpieces of Greek Literature; Dean Church, Essay on Dante; Ozanam, Dante and the Philosophy of the XIII Century; Ruskin's Works; Lowell's Essays, Vol. IV; Kelly, History and Criticism of Spanish Literature; Scherer, History of German Literature; Baumgartner, Weltliteratur.

57b. *English Classics.*

Dante, Inferno; Lope de Vega, Star of Seville, Calderon, Secret in Words; Marlowe, Edward II., Faustus; Schiller, Mary Stuart; Goethe, Faust; Rostand, Cyrano de Bergerac, Chantecler.

GERMAN

Freshman Year. Three Periods a Week.

60. Advanced study of German Grammar. German Literature: I. and II. Periods, with selections from the authors of these periods. Lectures on German Epic and Lyric Poetry, with their representative writers.

61. German Conversation. German Literature: III., IV., and V. Periods, with selections from the authors of these periods. Detailed study of the Life and Works of Klopstock and of Wieland.

Selections to be made from the following: Klopstock's *Odes, Oberon, Nathan the Wise, Minna von Barnhelm, Die Braut von Messina.*

Sophomore Year. Three Periods a Week.

62. Translation from English into German. German Literature. VI. Periods, with selections from the authors of this period. Lectures on German Drama, with its representative writers.

63. German Composition and Conversation. German Literature VI. Period, with selections from the authors of this period. Detailed study of the Life and Works of Schiller and of Lessing. First and Second Semesters.

Selections to be made from the following: *Wallenstein* (three parts), *Maria Stuart, Emilia Galotti, Faust.*

Junior Year. Three Periods a Week.

64. Scientific German, and German Conversation. German Literature: VII. Period, with selections from the authors of this period. Lectures on German Prose (Historical, Critical, Philosophical, Oratorical, Romantic), with its representative writers.

65. Original Essays in German and German Conversation. German Literature: VII. Period with selections from the authors of this period. Detailed study of the Life and Works of Goethe and of Herder.

Selections to be made from the following: *Goetz von Berlichingen, Wilhelm Meister's Lehrjahre, Iphigenie in Tauris, Die Italienische Reise, Blaetter von Deutscher Art und Kunst, Selections from the Thirty Years' War.*

Senior Year. Two Periods a Week.

66. German Philosophical Works.

SPANISH

Freshman Year. Three Hours a Week.

67. Pronunciation; theory and practice in Spanish Grammar; easy conversation; reading exercises; recitations; translation of short stories by Trueba, Fernan Caballero and J. de D. Peza; social correspondence.

Sophomore Year. Three Hours a Week.

68. Continuation of the study of Spanish Grammar; prose composition; readings from de Vitis Spanish Reader; business correspondence.

Junior Year.

69. Recitation and analysis of select classics,—Cervantes, Lope de Vega, Calderon, Moratin and Pereda; history of Spanish Literature.

FRENCH

Freshman Year. Three Periods a Week.

70. Elementary Grammar, Pronunciation, written exercises.

Based on Syms' First Year French.

71. Continuation of work done during the First Semester; reading of simple French short stories; study of simple memory selections; conversation.

Based on Syms' Second Year French.

Collateral eading: *Fables Choisies de La Fontaine. Les Plus Jolis Contes des Fees Lazare.*

Sophomore Year. Three Periods a Week.

72. Advanced Grammar; written exercises; conversation; continuation of reading and memory selections of the first year.

Based on Syms' Third Year French.

Collateral Reading: Aldrich and Foster's French Reader. *Fleurs de France. Contes de Daudet.*

73. Continuation of the work of the preceding semester.

Syms' Third Year French is completed; a general review of French Grammar and exercises in French Composition weekly.

Collateral Reading: *Choix de Contes Contemporains. Contes Choisis* de J. Lemaitre. *Contes Choisis* de Rene Bazin. Plays selected from Labiche and Legouve.

Junior Year. Three Periods a Week.

74. In this course the French Language is exclusively used. French Literature of the X., XII., XIII., XV., and XVI. centuries is insisted upon, but a thorough study of the XVII. century and of the principal authors is made.

Text. Fortier's *Histoire de la Litterature Francaise.*

Special study of Corneille, *Le Cid, Horace, Polyeucte* (only one); Racine, *Athalie, Andromaque, Brittanicus,* (only one); Moliere, *l'Avare, le Misanthrope, le Bourgeois Gentilhomme;* Boileau, *Selections;* Bossuet, *Oraisons Funebres, Sermons; Fenelon, Telemaque.*

75. Continuation of the work started in the preceding semester; special study of the XVIII. and XIX. centuries.

Selections from Voltaire, Rousseau, and others of the XVIII. century.

Special study of Chateaubriand, *Atala, Avantures du Dernier des Abencerges, poems.* La Triade Francaise: Lamartine, Alfred de Musset, and Victor Hugo. H. de Bornier, *La Fille de Roland*; Rostand, *Cyrano de Bergerac* and *l'Aiglon.*

Lectures in French will be given on other authors and the influence on French thought and life.

Senior Year. One Period a Week.

76. Reading of French Philosophers: Pascal, *Pensees;* Descartes, *Discours sur la Methode;* Cousin, *le Vrai, le Beau et le Bien.*

HISTORY

Freshman Year. Two Periods a Week

80. Christianity and the Roman Empire; Origin of the Papal States; Charlemagne; The Papacy and the Empire.

81. Mediaeval Universities; Crusades; Rise of the Western States; Religious Orders; Schism of the West.

Sophomore Year. Two Periods a Week.

82. The Renaissance; Modern Maritime Enterprises; The Great Religious Schism; Thirty Years' War; Anglo-Indian Empire; French Absolutism.

Junior Year. Two Periods a Week.

83. The French Revolution; The Napoleonic Wars; The French Republic; Reform Movement; Unification of Germany and Italy; Kulturkampf in Germany. Eastern Question; Awakening of the Orient; Current Events.

Senior Year. Two Periods a Week.

84. Constitutional History of the United States; Principles and Applications of the Constitution; Duties of an American Citizen.

85. Labor Question; Race Problem; Social Reformers.

ELEMENTARY LAW

Freshman Year. One Hour a Week.

86. The new course of Elementary Law has for its purpose to teach the scope and field of jurisprudence. Law will be shown as a science and as a structure, and classification and explanation of the various departments will be made clear to the classes without treating law technically. The course will be supplemented by lectures on business law.

POLITICAL ECONOMY

Junior Year. Two Hours a Week.

87. General Introduction: Definition; Relation to Ethics; Subject Matter and Method; Schools—Liberal, Socialist, Catholic, Historical.

Economics: Wealth; Value, Price. Production: Nature; Labor; Capital. Money: Origin and Development; Kinds; Functions; Goetham's Law; Bimetallism and Monometallism; Inflation and Contraction; Depreciation; Credit and the Instruments of Credits; Banks and Banking; History of Banking; Remedies for the Present System of Banking. International Trade: Balance of Trade; Protection and Free Trade; Transportation; Government Ownership of Utilities and Service Commissions; Corporations; Trusts; Government Revenue; Insurance. Consumption: Spending; Saving; Investing; Poverty; Distribution; Rent; Interest; Profits; Wages.

SOCIOLOGY

Senior Year. Two Hours a Week.

88. Introduction: 1. The Nature of the Study; 2. What is involved in Sociological Causation, Problem Phenomena and Explanation and Kinds of Conditioning Phenomena.

Part I: Causes which affect the Life of Society: (a) Geographic Causes which affect the life of Society and Their Social Effects. (b) Technic causes that affect the life of

Society: Rural conditions; the city; personal groups and crowds; social effects of the amount, forms, and distribution of wealth; the inadequacy of economic law to explain or control justly the distribution of wealth and the necessity of social control; how may society regulate the distribution of wealth; types of poverty; charity organizations. (c) Psychological causes which affect the life of society: The hereditary characteristics of population; immigration; acquired population, traits and public health. (d) Social causes which affect the life of Society. The determination of the life of society from within; prestige and accommodation.

Part II: Nature and analysis of the life of society: The nature of the life of society; the analysis and classification of social activities; modes of variation in social activities; natural social order; society and the individual.

Part III: Social Evolution: The perspective of Social Evolution; Examples of Social Evolution.

Part IV: Social Control: The Problem and the Principles of Social Control; Crime and Its Causes; Crime and Its Treatment; Religion, Public Opinion, and Politics as Agencies of Social Control; Education; Educational Agencies Outside the School.

BIOLOGY

Sophomore Year. First Term. Six Hours a Week.

89. This course in Biology consists of one hour of lecture and five hours of laboratory work during seventeen weeks. The following list of materials used in laboratory study, with the apportionment of the number of hours required, gives a scope of the minimum amount of laboratory work required of every student:

Invertebrates: Animal Cells (4); Amoeba and White Blood Corpuscles of Frog (4); Paramoecium (2); Vorticella and Euglena (2); Bacteria and Yeast (4); Freshwater Hydra (5); Pennaria (Hydroid) (2); Grantia (simple sponge) (2); Starfish,—external characters and dissection (8); Earthworm,—dissection and study of miscroscopic preparations (10); Parasitic Worms,—tapeworm, other intestinal worms, Trichina (5); Freshwater Mussel (8); Crayfish or Lobster (10); Grasshopper (10); Flies, Mosquitoes, etc. (10).

Sophomore Year. Second Term. Six Hours a Week.

90. This course in Biology consists of one hour of lecture and five hours of laboratory work during seventeen weeks. The following list of materials used in laboratory work, with the apportionment of the number of hours required, gives the scope of the minimum amount of laboratory work required of every student.

Vertebrates: Amphioxus,—external characters and microscopic study of transverse sections (5); Fish—dogfish or perch—external characters and dissection of internal organs and nervous system (10); Frog,—external characters, dissection of internal organs, nervous system, muscles of hind leg, skeleton (15); Turtle,—study of shell, dissection of organs (10); Pigeon,—external characters, feathers, dissection of internal organs, nervous system, superficial muscles, leg and wing (15); Cat,—dissection of internal organs, nervous system, eye, superficial muscles (20); Development of frog, gross and microscopic study of eggs and larvae in successive stages of development (10).

GEOLOGY

Sophomore Year. Second Term. Two Hours a Week.

91. The principles of dynamic, structural, physiographical and historical Geology are presented in a series of lectures and recitations, supplemented by specimens furnished by the College Museum.

CHEMISTRY (for Pre-Medical Students)

Qualitative Chemistry (Lecture Course). Freshman Year. Two Hours a Week.

92. A lecture course, fully illustrated, in which the metallic elements are studied from the standpoint of their analytical classification, going into details regarding their reactions with the typical reagents. Acid analysis is also taken up and the problems of qualitative analysis are considered in their various phases.

Qualitative Analysis (Laboratory Course). Freshman Year. First Term. Four Hours a Week.

93. The student is required to separate and to identify the various metallic and non-metallic elements, inorganic and common organic acids contained in materials of graded complexity.

Qualitative Analysis (Laboratory Course). Freshman Year. Second Term. Four Hours a Week.

94. The work under 93 is continued and completed, with special reference to full qualitative identification of complex minerals and alloys.

Quantitative Analysis. Sophomore Year. First Term. Seven Hours a Week.

95. This course provides a training in the accepted methods of quantitative analysis and follows courses 93 and 94. The work includes the gravimetric estimation of such

metals as aluminum, copper, calcium, the halogens, sulphur and nitrogen, and the components of common alloys.

Quantitative Analysis. Sophomore Year. Second Term. Seven Hours a Week.

96. The work assigned is a continuation of the course 95 and introduces the student into the methods of calibration of apparatus, acidimetry, alkalimetry, oxidation, reduction and precipitation methods. Application of these are made as the student advances in the stages of his work.

Organic Chemistry. Sophomore Year. Three Hours a Week.

97. Part I.—A course of lectures and recitations in which the general principles and theories of Organic Chemistry are treated with special reference to the Aliphatic Series. Attention is constantly drawn to such specific compounds as are of technical, medicinal, or theoretical importance.

Part II.—A lecture and recitation course, in which the Benzene Series is treated. As in Part I., the scientific development of the subject is always accompanied by demonstrations.

PHYSICS (for Pre-Medical Students)

Sophomore Year. First and Second Terms. Three Hours a Week.

98. The aim of this course is to furnish all the knowledge of physics required in the technical courses of the Pre-Medical Course. The subjects considered are general mechanics, molecular mechanics, wave motion, electricity, magnetism, sound and optics. These topics are discussed both mathematically and experimentally, while the historical and descriptive aspects are not overlooked The physical principles and the applications thereof are very fully illustrated by an extensive series of lecture-table demonstrations and lantern projections.

Physical Laboratory. Sophomore Year. First and Second Terms. Six Hours a Week.

99. The work in the Physical Laboratory is from the beginning exclusively quantitative. It is so mapped out as to teach the student to make accurate measurements, to impart dexterity in the manipulation of instruments, and to give practice in properly noting, interpreting, and reducing experimental data. The student at the same time gets a clear understanding of the principles of Physics that he has learned n the lecture-room.

The following questions are treated in the laboratory:

Uniformly accelerated motion; force proportional to rate of change of momentum; composition and resolution of forces; the principle of work; energy and efficiency; the laws of impact; elastic impact; coefficient of restitution; elasticity; Hook's law; Young's modulus; the coefficient of rigidity; moment of inertia; simple harmonic motion; determination of "g"; the law of centripetal force; Boyles' law; density of air; the measurement of temperature; law of Avogadro; densities of gases and vapors; the pressure-temperature curve of a saturated vapor; hygrometry; Archimedes' principle; capillarity; calorimetry; expansion.

Magnetic and electric fields of force; determination of the strengths of magnetic fields and magnetic poles; measurement of electric currents; measurement of potential difference; measurement of resistance; temperature coefficient of resistance; specific resistance; galvanometer constant of a moving-coil galvanometer; absolute measurement of capacity; comparison of capacities, determination of dielectric constants, and the ratio of the electro-static and electro-magnetic units; electromotive force and internal resistance; comparison of electromotive forces; electro-magnetic induction; constants of the earth's magnetic field; self-induction; magnetic induction in iron; electrolytic conduction; velocity of sound in air; musical properties of air chambers; longitudinal vibrations of rods; waves in strings; diffraction of sound and light waves; diffraction grafting; refraction of light; total reflection; dispersion and spectra; polarized light; radioactivity.

MILITARY TRAINING

Military Training is given under the direction of an officer of the United States Army. It is compulsory for all collegiate students at St. Mary College. One faculty member and eight collegiate students, who are certified by the United States government as instructors in military training, will take active part in the training of the College Battalion, under the direction of the United States Army Officer. The instructors were specially prepared for their work at Fort Sheridan, Ills., where they were given sixty days of intensive training in military tactics, at the close of which they were given certificates as instructors in military training.

COLLEGE OF ENGINEERING

The College of Engineering, organized September, 1910, is designed to satisfy an oft-repeated desire and to fill a long-felt need. This College is a natural outgrowth of the science courses which have always received considerable attention at St. Mary.

No effort is spared to acquaint the student thoroughly with the fundamental principles and to give him a good insight into the theoretical analysis of engineering problems. While emphasis is laid on fundamental theory, continual attention is paid to the solution of practical problems for the purpose of imbedding principles and illustrating the lines of their general industrial application. At the same time students are trained to habits of initiative and industry, and will thus be well prepared to adapt themselves readily to actual conditions and requirements, and to grapple with new problems that from time to time confront the professional engineer.

Lectures and text-book courses are accompanied throughout by quantitative work in well-equipped laboratories.

Frequent visits are made to accessible engineering establishments to make the student thoroughly conversant with the trend of current engineering practice. For such purposes Dayton offers exceptional facilities owing to the great number and variety of engineering plants located in the city and vicinity.

Lectures by engineers in active service will help to keep the student in touch with professional work.

REQUIREMENTS OF ADMISSION
to the
COLLEGE OF ENGINEERING

Candidates for admission to the College of Engineering must be sixteen years old. They must give evidence of having satisfactorily completed an amount of preparatory work averaging sixteen units. By a unit is meant a subject pursued throughout the year, comprising four or five recitations per week. Studies pursued for half a year entitle to half a unit.

Blanks of admission will be supplied by St. Mary College, which must be filled out and signed by the proper authority of the Preparatory School or High School.

The subjects of the sixteen units required for admission are arranged in two groups.

GROUP I	REQUIRED STUDIES	10 UNITS
Algebra	To Quadratics	1 unit
Algebra	Through Quadratics, Binominal Theorem	½ unit
Geometry	Plane	1 unit
Geometry	Solid	½ unit
English	Composition and Rhetoric	2 units
Languages	Latin or German or French	3 units
Physics	Elementary with Laboratory Practice	1 unit
Chemistry	Inorganic with Laboratory Practice	1 unit

GROUP II	OPTIONAL STUDIES	6 UNITS
Latin	Advanced	1 to 4 units
German	Advanced	1 to 4 units
Greek	Elementary	1 to 3 units
Trigonometry	Plane	½ unit
History	Ancient and Modern, Civics	2 units
Astronomy	Descriptive	½ unit
Botany	Elementary	½ unit
Zoology	Elementary	½ unit
Physiology	First Elements	½ unit
Physiography	Elements	½ unit
Freehand Drawing		½ unit
Mechanical Drawing		1 unit
Manual Training or Shopwork		1 unit

COLLEGE OF ENGINEERING

Faculty

Rev. Bernard P. O'Reilly, S. M.
President

Rev. Joseph A. Tetzlaff, S. M.
Vice-President

Bro. Adam Hofmann, S. M., M. Sc.
Mechanical Engineering

Bro. William J. Wohlleben, S. M., M. Sc., Ph. D.
Chemical Engineering, Mineralogy

Bro. Ulrich J. Rappel, S. M., B. A., M. Sc., Ph. D.
Electrical Engineering

Bro. Frederick Hartwich, S. M., M. Sc.
Mathematics, French

Bro. Martin Werneburg, S. M., M. Sc.
Mathematics, Surveying

Bro. William A. Beck, S. M., M. Sc.
Physics, Biology

Bro. Francis J. O'Reilly, S. M., M. A.
Mechanical Drawing, English

Bro. Matthias Haas, S. M., B. S.
Qualitative Chemistry

Rev. Clement Wulf, S. M., M. A.
Logic, Psychology, Ethics

Rev. Francis Kunnecke, S. M., M. A.
Religion, Political Economy, Sociology

Bro. Thomas Poitras, S. M.
French

Rev. Francisco Villasenor
Spanish

Bro. John Gareis, S. M.
Librarian

Charles Whalen, B.A., LL. B.
Elementary Law

Bro. Fred. Paff, S. M.
Prefect of St. Joseph Hall

U. S. Army Officer
Instructor in Military Training

STUDENTS' ADVISORY COMMITTEE

Bro. Adam Hofmann, S. M.

Bro. William J. Wohlleben, S. M.

Bro. Ulrich J. Rappel, S. M.

SPECIAL LECTURERS

F. J. Cellarius, C. E.
(Member of the Ohio Engineering Society)
Civil Engineer, Dayton

O. H. Hutchings
President of the Dayton Power and Light Co.

F. O. Clements, A. M., M. S.
Chief Chemist of the National Cash Register Company

Harry F. Finke, B. S.
Civil Engineer and Contractor

Louis H. McFadden, A. M.
Chief Chemist of Lowe Bros. Paint Company, Dayton, Ohio

ELECTRICAL ENGINEERING

The course in Electrical Engineering aims to give a broad knowledge of the Theory of Electricity and of its applications in the arts. The instruction is given by lectures, recitations, and laboratory work.

As the modern development of Electrical Engineering has taken place largely along lines dependent on a thorough acquaintance with the Theory of Electricity, great importance is attached to this study.

In the junior and senior years the lectures have a distinctly professional character.

The theoretical work is closely linked with an extended course of laboratory exercises. In the laboratories General Physical Measurements are first taken up, followed by General Electrical Measurements. This leads to work in Electrical Testing and Electrical Engineering where distinctly engineering problems are taken up. The work is so arranged as to develop in the students habits of observation, precision, initiative and industry.

COURSE IN ELECTRICAL ENGINEERING

Freshman Year

First Term

Subjects	Weeks	Periods per Week
Religion (100)	17	2
English (110, 111)	17	2
French (120)	17	3
Scientific German (125)	17	2
Higher Algebra (151)	17	5
Trigonometry (150)	17	5
Mechanical Drawing (171)	17	8
Qualitative Chemistry (201)	17	3
Qualitative Anaylsis (202)	17	3
Use of Calculating Machines		

Second Term

Religion (100)	17	2
English (110, 111)	17	2
French (121)	17	3
Scientific German (125)	17	2
Higher Algebra (151)	17	5
Descriptive Geometry (170)	17	8
Analytical Geometry (152)	17	5
Qualitative Chemistry (201)	17	3
Qualitative Analysis (202, 203)	17	3
Shop Work (230, 231)	8	44

COURSE IN ELECTRICAL ENGINEERING

Sophomore Year

First Term

Subjects	Weeks	Periods per Week
Religion (101)	17	2
English (112, 113)	17	2
French (122)	17	3
Machine Drawing (172)	17	5
Calculus (153)	17	5
Vector Analysis (155)	17	1
Physics (180)	17	3
Physical Laboratory (181)	17	6
Surveying (163)	17	5

Second Term

Religion (101)	17	2
English (112, 113)	17	2
French (123)	17	3
Machine Drawing (172)	17	5
Calculus (154)	17	5
Vector Analysis (155)	17	1
Differential Equations (156)	17	2
Physics (180)	17	3
Physical Laboratory (181)	17	6
Shop Work (232, 233, 234)	8	44

COURSE IN ELECTRICAL ENGINEERING

Junior Year

First Term

Subjects	Weeks	Periods per Week
Religion (102)	17	2
Spanish (optional) (130)	17	3
Dynamo Electric Machinery (186)	17	3
Electrical Measurements (185)	17	3
Theoretical Mechanics (160)	17	5
Applied Mechanics / Strength of Materials (161)	17	3
Theory of Mechanism (157)	17	4
Thermodynamics (158)	17	2
Electrical Laboratory (188)	17	5
Machine Design (173)	17	3

Second Term

Religion (102)	17	2
Spanish (optional) (130)	17	3
Dynamo Electric Machinery (186)	17	3
Electrical Measurements (185)	17	3
Theoretical Mechanics (160)	17	5
Applied Mechanics / Strength of Materials (161)	17	3
Electrical Laboratory (188)	17	5
Principle of Industrial Engineering (341)	17	1
Machine Design (173)	17	3
Electrical Machine Construction (194)	8	44

COURSE IN ELECTRICAL ENGINEERING

Senior Year

First Term

Subjects	Weeks	Periods per Week
Ethics (103)	17	2
Spanish (optional)	17	3
Theory of Alternating Currents and Alternating Current Machinery (187)	17	5
Electrical Measurements, Illumination and Photometry (185)	17	3
Electrical Laboratory (189)	17	5
Philosophy: Logic (104)	17	2
Electrical Design (191)	17	5
Telephony and Telegraphy (195)	17	2
Cost Keeping, Scientific Management (342)	9	4
Works Management (343)	8	4
Seminar (193)	17	1

Second Term

Ethics (103)	17	2
Spanish (optional)	17	3
Theory of Alternating Currents and Alternating Current Machinery (187)	17	5
Electrical Measurements (185)	17	3
Electrical Distribution and Control (190)	17	3
Electrical Laboratory (189)	17	5
Hydraulics (162)	17	2
Philosophy: Psychology (105)	17	2
Electrical Design (191)	17	5
Factory Organization and Administration (344)	12	4
Specifications and Contracts	5	4
Economics (106)	17	1
Seminar (193)	17	1
Excursions (192)		

COLLEGE OF ENGINEERING—Schedule of Studies for Electrical Engineering

Hrs.	Classes	Mon.	Tues.	Wed.	Thur.	Fri.	Sat.
8:00	Fresh. Soph. Junior Senior		German ——— Thermodynamics Logic-Psychol.	Moral Moral Moral Ethics-Theod.		Moral Moral Moral Ethics-Theod.	German Surveying Thermodynamics Logic-Psychol.
8:45	Fresh. Soph. Junior Senior	Higher Algebra Calculus Electrical Eng. Electrical Eng.	Higher Algebra Calculus Electrical Eng. Electrical Eng.	Higher Algebra Calculus Electrical Eng. Electrical Eng.	Draw.-Descrip. Machine Draw. Applied Mech. Seminar	Higher Algebra Calculus Electrical Eng. Electrical Eng.	Higher Algebra Calculus Electrical Eng. Electrical Eng.
9:45	Fresh. Soph. Junior Senior	Trig.-Analytic Physics Tel. & El. Dist. ———	Trig.-Analytic Vector Analysis ——— Hydraulics	Trig.-Analytic Physics Tel. & El. Dist. Elec. M. Design	Draw.-Descrip. Machine Draw. Applied Mech. ———	Trig.-Analytic Physics Tel. & El. Dist. Hydraulics	Trig.-Analytic ——— ——— Elec. M. Design
10:30	Fresh. Soph. Junior Senior	English ——— Theoret. Mech. Illum.-Photom.	——— ——— Mechanism ———	Descrip. Geom. English Theoret. Mech. Illum.-Photom.	Draw.-Descrip. Machine Draw. Applied Mech. ———	English ——— Theoret. Mech. Illum.-Photom.	Descrip. Geom. English Theoret. Mech. ———
11:15	Fresh. Soph. Junior Senior	French French French Industrial Eng.	——— Surveying Mechanism ———	French French Spanish Factory Organ.	Draw.-Descrip. Machine Draw. Applied Mech. ———	French French Spanish Law-Contracts Specifications	——— ——— Mechanism ———
1:00 to 3:00	Fresh. Soph. Junior Senior	Qual. Analysis Surveying Elec. Test. Lab. Elec. Test. Lab.	Law (1:00-2:00) Physics (1-5) Elec. Test. Lab. Elec. Test. Lab.	Qual. Analysis Physics Elec. Test. Lab. Elec. Test. Lab.	——— ——— ——— ———	Draw.-Descrip. Machine Draw. Elec. Test. Lab. Elec. Test. Lab.	Draw.-Descrip. Machine Draw. Mechanism Elec. M. Design

CHEMICAL ENGINEERING

In arranging the following Course of Chemical Engineering, the Faculty has aimed at meeting the needs of such students who desire to obtain a fundamental knowledge of Chemistry and other allied subjects so as to enable them to deal with problems of construction, operation, and maintenance in connection with manufacturing processes that are essentially chemical in character. With this end in view, the course includes instruction in Qualitative and Quantitative Chemical Analysis in its various phases, in Organic and Technical Chemistry. In the Laboratory the Synthesis of typical chemical compounds leads up to the actual analysis of mixtures, alloys, and minerals according to the gravimetric, volumetric, and electrolytic methods. This work is followed by extensive practice in the domains of Organic Chemistry, Organic Technology, and Physical Chemistry. Collateral courses include Mechanical Drawing, Higher Mathematics, Advanced Physics, Mineralogy, the study of Electrical Currents and Machinery, and of one or more Modern Languages. The student is thus expected to be equipped to solve the problems constantly confronting the Chemical Engineer in the industrial field.

The Chemical Laboratories are provided with a complete stock of all necessary glass, porcelain, platinum and other metal ware, water, gas, and air-blast. Each student is provided with a locker containing all necessary apparatus for his work. Special apparatus for gas, fuel, water, and mineral analysis is also at hand, as well as analytical balances of standard makes and great sensitiveness. Modern appliances are also at the disposal of the student for electro-analysis. Numerous fume hoods insure proper ventilation of the rooms. Regard for the comfort of one's fellow-students is insisted upon. The Department Library contains standard chemical periodicals and publications in English, German and French.

COURSE IN CHEMICAL ENGINEERING

Freshman Year

First Term

Subjects	Weeks	Periods per Week
Religion (100)	17	2
English (110, 111)	17	2
French (120)	17	3
Scientific German (125)	17	2
Higher Algebra (151)	17	5
Trigonometry (150)	17	5
Mechanical Drawing (171)	17	8
Qualitative Chemistry (201)	17	3
Qualitative Analysis (202)	17	3
Use of Calculating Machines.		

Second Term

Religion (100)	17	2
English (110, 111)	17	2
French (121)	17	3
Scientific German (125)	17	2
Higher Algebra (151)	17	5
Descriptive Geometry (170)	17	8
Analytic Geometry (152)	17	5
Qualitative Chemistry (201)	17	3
Qualitative Analysis (202, 203)	17	3
Shop Work (230, 231)	8	44

COURSE IN CHEMICAL ENGINEERING

Sophomore Year

First Term

Subjects	Weeks	Periods per Week
Religion (101)	17	2
English (112, 113)	17	2
French (122)	17	3
Quantitative Analysis (204)	17	7
Calculus (153)	17	5
Vector Analysis (155)	17	1
Physics (180)	17	3
Physical Laboratory (181)	17	6
Mineralogy (220)	17	2

Second Term

Religion (101)	17	2
English (112, 113)	17	2
French (123)	17	3
Quantitative Analysis (205)	17	7
Calculus (154)	17	3
Vector Analysis (155)	17	1
Differential Equations (156)	17	2
Physics (180)	17	3
Physical Laboratory (181)	17	6
Shop Work (232, 233, 234)	8	44

COURSE IN CHEMICAL ENGINEERING

Junior Year

First Term

Subjects	Weeks	Periods per Week
Religion (102)	17	2
Spanish (optional) (130)	17	2
Technical Analysis (207)	17	6
Electrochemistry (206)	6	6
Organic Chemistry (208)	17	3
Theoretical Mechanics (160)	17	5
Applied Mechanics / Strength of Materials (161)	17	3
Theoretical Mechanics (160)	17	5
Thermodynamics (158)	17	2
Electrical Labratory (188)	17	3
Machine Design (173)	17	3
Seminar (212, 213)	17	1

Second Term

Religion (102)	17	2
Spanish (optional) (130)	17	2
Technical Analysis (207)	12	5
Organic Chemistry (208)	17	3
Chemical Technology (210)	17	2
Applied Mechanics / Strength of Materials (161)	17	3
Electrical Laboratory (188)	17	3
Machine Design (173)	17	3
Industrial Engineering (340)	17	1
Seminar (212, 213)	17	1

COURSE IN CHEMICAL ENGINEERING

Senior Year

First Term

Subjects	Weeks	Periods per Week
Ethics (103)	17	2
Spanish (131) (optional)	17	3
Physical Chemistry (211)	17	2
Organic Practice (209)	17	12
Chemical Technology (210)	17	2
Philosophy: Logic (104)	17	2
Cost Keeping and Scientific Management (342)	9	4
Works Management (343)	8	4
Seminar (212, 213)	17	1
Inspection Visits (214)		

Second Term

Ethics (103)	17	2
Spanish (131) (optional)	17	3
Organic Practice (209)	17	12
Physical Chemistry (211)	17	2
Hydraulics (162)	17	2
Philosophy: Psychology (105)	17	2
Factory Organization and Administration (344)	12	4
Specifications and Contracts	5	4
Economics (106)	17	1
Seminar (212, 213)	17	1
Inspection Visits (214)		

COLLEGE OF ENGINEERING—Schedule of Studies for Chemical Engineering

Hrs.	Classes	Mon.	Tues.	Wed.	Thur.	Fri.	Sat.
8:00	Fresh. Soph. Junior Senior		German ——— Thermodynamics Logic-Psychol.	Moral Moral Moral Ethics-Theod.		Moral Moral Moral Ethics-Theod.	German ——— Thermodynamics Logic-Psychol.
8:45	Fresh. Soph. Junior Senior	Higher Algebra Calculus Organic Chem. Organic Chem.	Higher Algebra Calculus Technology Technology	Higher Algebra Calculus Organic Chem. Organic Chem.	Draw.-Descrip. Quant. Analysis Applied Mech. Seminar	Higher Algebra Calculus Organic Chem. Organic Chem.	Higher Algebra Calculus Technology Technology
9:45	Fresh. Soph. Junior Senior	Trig.-Analytic Physics Tech. Analysis Organic Lab.	Trig.-Analytic Vector Analysis ——— Hydraulics	Trig.-Analytic Physics Tech. Analysis Organic Lab.	Draw.-Descrip. ——— Applied Mech. ———	Trig.-Analytic Physics Tech. Analysis Hydraulics	Trig.-Analytic ——— Tech. Analysis ———
10:30	Fresh. Soph. Junior Senior	English Mineral.-Geol. Theoret. Mech. ———	——— ——— Mechanism ———	Descrip. Geom. English Theoret. Mech. ———	Draw.-Descrip. ——— Applied Mech. ———	English Mineral.-Geol. Theoret. Mech. ———	Descrip. Geom. English Theoret. Mech. ———
11:15	Fresh. Soph. Junior Senior	French French Spanish Industrial Eng.	——— ——— Mechanism Physical Chem.	French French Spanish Factory Organ.	Draw.-Descrip. ——— Applied Mech. ———	French French Spanish Law-Contracts Specifications	——— ——— ——— Physical Chem.
1:00 to 3:00	Fresh. Soph. Junior Senior	Qual. Analysis Quant. Analysis ——— Organic Lab.	Qual. Chem. (2-3) Law (1:00-2:00) Physics (1-5) Electrical Lab. Electrical Lab.	Qual. Analysis Physics Organic Lab. Organic Lab.	Biological Lab. (1:00-5:00)	Draw.-Descrip. Quant. Analysis Organic Lab. Organic Lab.	Draw.-Descrip. Quant. Analysis Mechanism Organic Lab.

COURSE IN CIVIL ENGINEERING

The course in Civil Engineering is so designed as to give the student a thorough theoretical and practical training in the fundamental sciences upon which professional practice is based. Moreover, care is taken to make this foundation broad enough to prepare the student to pursue to advantage any line of Civil Engineering practice, whether it be Topographical, Railroad, Municipal, Structural or Hydraulic. All of these are but ramifications of the same parent stem and grow from a relatively compact body of principles. It is in these principles that the student is trained by practice in the class room, drafting room, field and testing laboratory.

As in the other departments, special attention is given to develop in the student habits of observation, precision, initiative and industry. Particular stress is laid upon the systematic reading of current technical publications.

Visits of inspection are paid to civil engineering works of note, both completed and in porcess of construction. After each such visit the student is obliged to draw up a detailed critical report.

COURSE IN CIVIL ENGINEERING

Freshman Year

First Term

Subjects	Weeks	Periods per Week
Religion (100)	17	2
English (110, 111)	17	2
French (120)	17	3
Scientific German (125)	17	2
Higher Algebra (151)	17	5
Trigonometry (150)	17	5
Mechanical Drawing (171)	17	8
Qualitative Chemistry (201)	17	3
Qualitative Analysis (202)	17	3
Use of Calculating Machines		

Second Term

Religion (100)	17	2
English (110, 111)	17	2
French (121)	17	3
Scientific German (125)	17	2
Higher Algebra (151)	17	4
Descriptive Geometry (179)	17	8
Analytical Geometry (152)	17	5
Qualitative Chemistry (201)	17	2
Qualitative Analysis (202, 203)	17	4
Shop Work (230, 231)	8	44

COURSE IN CIVIL ENGINEERING

Sophomore Year

First Term

Subjects	Weeks	Periods per Week
Religion (101)	17	2
French (122)	17	2
English (112, 113)	17	3
Machine Drawing (172)	17	5
Calculus (153)	17	5
Vector Analysis (155)	17	1
Physics (180)	17	3
Physical Laboratory (181)	17	6
Surveying (163)	17	6
Mineralogy (220)	17	2

Second Term

Religion (101)	17	2
English (112, 113)	17	2
French (123)	17	3
Machine Drawing (172)	17	5
Calculus (154)	17	5
Vector Analysis (155)	17	1
Differential Equations (156)	17	2
Physics (180)	17	3
Physical Laboratory (181)	17	6
Topographical Surveying (164)	17	5
Geology (221)	17	2
Stereotomy (300)	17	3
Shop Work (232, 233, 234)	8	44

COURSE IN CIVIL ENGINEERING

Junior Year

First Term

Subjects	Weeks	Periods per Week
Religion (102)	17	2
Spanish (130) (optional)	17	3
Applied Mechanics / Strength of Materials (161)	17	8
Machine Design (173)	17	4
Stresses (301)	17	6
Railroad Engineering (303)	17	5
Electrical Engineering Laboratory (305)	17	3
Surveying (163)	17	2

Second Term

Religion (102)	17	2
Spanish (130) (optional)	17	3
Applied Mechanics / Srength of Materials (161)	17	8
Machine Design (173)	17	4
Hydraulics (306)	17	5
Graphic Statics (302)	17	5
Practical Astronomy and Geodesy (307)	17	4
Railroad Engineering (303)	17	5
Electrical Engineering Laboratory (305)	17	3

COURSE IN CIVIL ENGINEERING

Senior Year

First Term

Subjects	Weeks	Periods per Week
Ethics (103)	17	2
Spanish (131) (optional)	17	3
Economics (106)	17	2
Philosophy: Logic (104)	17	2
Prime Movers (308)	17	2
Masonry (309)	17	5
Theory of Structures: Bridges and Similar Structures (310)	17	8
Hydraulic and Sanitary Engineering (311)	17	5
Railroad Engineering (304)	17	1

Second Term

Ethics (103)	17	2
Spanish (131) (optional)	17	3
Philosophy: Psychology (105)	17	2
Prime Movers (308)	17	4
Highway Engineering (312)	17	1
Theory of Structures: Bridges and Similar Structures (310)	17	8
Hydraulic and Sanitary Engineering (311)	17	4
Railroad Engineering (304)	17	4

COURSE IN MECHANICAL ENGINEERING

The course in Mechanical Engineering is so designed as to give the student a thorough training in Mathematics, Physics and Applied Mechanics. Then by means of lectures, laboratory work and drafting room work the student is made familiar with the various problems that confront the mechanical engineer.

As a certain amount of training in the Mechanical Arts is necessary for the intelligent and successful designing of machinery, the student is given exercise in the use of shop tools, in pattern work, foundry practice, forging and machine tool work.

Throughout the course special attention is given to develop in the student habits of observation, precision, initiative and industry. Particular stress is laid upon the systematic reading of current technical publications.

Dayton, the home of the National Cash Register Company and the city of a thousand factories, offers unusual advantages for visits of inspection to manufacturing establishments and power plants. After each such visit the student is required to draw up a detailed critical report.

COURSE IN MECHANICAL ENGINEERING

Freshman Year

First Term

	Weeks	Periods per Week
Religion (100)	17	2
English (110, 111)	17	2
French (120)	17	3
Scientific German (125)	17	2
Higher Algebra (151)	17	5
Trigonometry (150)	17	5
Descriptive Geometry (170)	5	8
Mechanical Drawing (171)	12	8
Qualitative Chemistry (201)	17	3
Qualitative Analysis (202)	17	3
Use of Calculating Machines.		

Second Term

Religion (100)	17	2
English (110, 111)	17	2
French (121)	17	3
Scientific German (125)	17	2
Higher Algebra (151)	17	4
Descriptive Geometry (170)	17	8
Analytical Geometry (152)	17	5
Qualitative Chemistry (201)	17	2
Qualitative Analysis (202)	17	4
Shop Work (230, 231)	8	44

COURSE IN MECHANICAL ENGINEERING

Sophomore Year

First Term

	Weeks	Periods per Week
Religion (101)	17	2
English (112, 113)	17	2
French (122)	17	3
Machine Drawing (172)	17	5
Calculus (153)	17	5
Vector Analysis (155)	17	1
Physics (180)	17	3
Physical Laboratory (181)	17	6
Surveying (163)	17	5

Second Term

Religion (101)	17	2
English (112, 113)	17	2
French (123)	17	3
Machine Drawing (172)	17	5
Calculus (154)	17	5
Vector Analysis (155)	17	1
Differential Equations (156)	17	2
Physics (180)	17	3
Physical Laboratory (181)	17	6
Shop Work (232, 233, 234)	8	44

COURSE IN MECHANICAL ENGINEERING

Junior Year

First Term

	Weeks	Periods per Week
Religion (102)	17	2
Spanish (130) (optional)	17	3
Theoretical Mechanics (106)	17	5
Applied Mechanics and Strength of Materials (161)	17	4
Theory of Mechanism (157)	17	4
Thermodynamics (158)	17	2
Mechanical Laboratory (313)	17	6
Electrical Engineering Lab. (305)	17	3
Power Plant Testing (318)	17	5
Inspection Visits.		

Second Term

Religion (102)	17	2
Spanish (130) (optional)	17	3
Theoretical Mechanics (160)	17	5
Applied Mechanics and Strength of Materials (161)	17	4
Machine Design (173)	17	4
Heat Engineering (316)	17	5
Metallurgy of Iron & Steel (332)	17	3
Mechanical Laboratory (314)	17	6
Electrical Engineering Lab. (305)	17	3
Power Plant Testing (319)	17	5
Industrial Engineering (341)	17	1
Inspection Visits.		

COURSE IN MECHANICAL ENGINEERING

Senior Year

First Term

	Weeks	Periods per Week
Ethics (103)	17	2
Spanish (131) (optional)	17	3
Philosophy: Logic (104)	17	2
Heat Engineering (317)	17	6
Power Plant (333, 334)	17	4
Machine Design	17	6
Hydraulics (316)	17	2
Cost Keeping and Scientific Management (342)	9	4
Works Management (341)	8	4
Seminar	8	1
Inspection Visits.		

Second Term

Ethics (103)	17	2
Spanish (131) (optional)	17	3
Philosophy: Psychology (105)	17	2
Heat Engineering (317)	17	6
Power Machinery (336)	17	6
Heat and Ventilation (340)	17	2
Hydraulic Motors (337)	8	2
Factory Organization and Administration (344)	12	4
Specifications and Contracts	5	4
Seminar	8	1
Inspection Visits.		

COLLEGE OF ENGINEERING—Schedule of Studies for Mechanical Engineering

Hrs.	Classes	Mon.	Tues.	Wed.	Thur.	Fri.	Sat.
8:00	Fresh. Soph. Junior Senior		German Thermodynamics Logic-Psychol.	Moral Moral Moral Ethics-Theod.		Moral Moral Moral Ethics-Theod.	German Surveying Thermodynamics Logic-Psychol.
8:45	Fresh. Soph. Junior Senior	Higher Algebra Calculus Mechanical Eng.	Higher Algebra Calculus Heat Engineer.	Higher Algebra Calculus Mechanical Eng.	Draw.-Descrip. Machine Draw. Strength of Mat.	Higher Algebra Calculus Heat Engineer.	Higher Algebra Calculus Mechanical Eng.
9:45	Fresh. Soph. Junior Senior	Trig.-Analytic Physics Heating&Ventil.	Trig.-Analytic Vector Analysis Hydraulics	Trig.-Analytic Physics Heating&Ventil.	Draw.-Descrip. Machine Draw. Strength of Mat.	Trig.-Analytic Physics Hydraulics	Trig.-Analytic
10:30	Fresh. Soph. Junior Senior	English Theoret. Mech. Mechanical Eng.	Mechanism Machine Design	Descrip. Geom. English Theoret. Mech. Heat Engineer.	Draw.-Descrip. Machine Draw. Strength of Mat.	English Theoret. Mech. Mechanical Eng.	Descrip. Geom. English Theoret. Mech. Heat Engineer.
11:15	Fresh. Soph. Junior Senior	French French Spanish Industrial Eng.	Surveying Mechanism Machine Design	French French Spanish Factory Organ.	Draw.-Descrip. Machine Draw. Strength of Mat.	French French Spanish Law-Contracts Specifications	Mechanism
1:00 to 3:00	Fresh. Soph. Junior Senior	Chemistry Surveying Mechanical Lab. Mechanical Lab.	Law (1:00-2:00) Physics Electrical Lab. Electrical Lab.	Chemistry Physics Mechanical Lab. Mechanical Lab.		Draw.-Descrip. Machine Draw. Seminar Seminar	Draw.-Descrip. Machine Draw. Mechanism Machine Draw.

SUBJECTS OF INSTRUCTION

100. Moral. I Year. One and One-half Hours a Week.

Nature and Distinction of Laws; Conscience; Sin; Virtue; Precepts of the Decalogue; Forms of Worship; Oaths and Vows; Obligation of Hearing Mass; Suicide; Murder, Scandal; Dueling; Duty and Right; Violation of Rights; Restitution; Contracts; Fraud; Lying; Detraction; Calumny; Violation of the Secret; Commandments of the Church; Fasting and Abstinence; Laws of Marriage; Christian Perfection; Evangelical Counsels; States of Life; Vocation. The Sacraments: Confession, Holy Communion, Holy Orders, Matrimony. Feasts, Ceremonies and Religious Practice of the Church.

101. Dogma. II Year. One and One-half Hours a Week.

The Holy Religion; God, His Essence and Attributes; Blessed Trinity; Creation of the World; the Angels; Man; Original Sin; the Incarnation; Jesus Christ in the Prophecy, on Earth, in Glory; the work of Jesus Christ; Grace; Merit; Essence and Existence of the Sacraments; Effects and Efficacy of the Sacraments; Indulgences; Virtue; Last Four Things.

102. Apologetics. III Year. One and One-half Hours a Week.

Religion, Revelation, Function of Reason in matter of Faith.

Historical value of the Sacred Scriptures. The Pentateuch; the Pentateuch and Science—Geology, Astronomy, Biology, Paleontology. The Bible and modern discoveries in Egypt, Assyria and Chaldea. Historical value of the Gospels.

Demonstration of the Divinity of the Christian religion. Miracles and Prophecies, Phenomenon of Hypnotism. Ten proofs of the Divinity of the mission of Jesus Christ and His work, the establishment of the Christian Religion. Christianity and Buddhism, Christian Science and Faith Cure. Truth of the Catholic Religion. (1) The Roman Catholic Church possesses the four positive marks of the true Church. Protestantism: The Original Schismatic Church. Prerogatives conferred by Jesus Christ upon the Church. (2) Accusations brought against the Church. Intolerance; the Vicious Circle; the Inquisition; Gallileo; Massacres of St. Bartholomew; Crusades; Wars of Religion; Revocation of the Edict of Nantes; Temporal Power of the Popes; Authority of the Popes in the Middle Ages; Bad Popes; the Church and Civilization.

103. Rational Theology. Senior Year. One and One-half Hours a Week.

1. Definition and scope. Relation to Dogmatic Theology. The Existence of God. Necessity of demonstrating the existence of God. Demonstration; arguments from motion, contingency, causality, axiomatic truths, duty, moral sanctions, relativity, design; ontological argument. Atheism: Idealistic Atheism, Materialistic Atheism, Practical Atheism, Religious and Moral Consequences of Atheism.

2. Nature and Attributes of God. Manner of Determining the Attributes of God; the Essence of God, and His metaphysical attributes, simplicity, perfection; idea of the infinite; immutability, eternity, unity, omnipresence. Moral attributes of God or the divine personality; God's knowledge; divine knowledge and human knowledge; divine knowledge and human liberty; divine will. Pantheism among the ancients; in the Middle Ages. Modern Pantheists, Spinoza's theory of substance, Fichte, Shelling, Hegel, Anthropomorphism.

3. Creation and Evolution. Creation according to St. Thomas; evolution according to the Fathers; evolution and the Bible.

104. Logic. Senior Year. First Term. Two Hours a Week.

General Introduction; Object of Logic; Divisions of Logic; Plan of Logic.

Formal Logic: On Concepts and Terms; The Proposition; The Syllogism.

Applied Logic or Methodology: On Method in General; Demonstration; Mathematical Demonstration; Method of the Physical Sciences; Method of the Natural Sciences; Method of the Moral Sciences; Errors and Sophisms; Truth and Science; The Principal Scientific Hypotheses.

105. Psychology. Senior Year. Second Term. Two Hours a Week.

Object of Psychology: The Facts of Consciousness; The Faculties of the Soul; The Soul; Method of Experimental Psychology.

Treatise on Sensibility: Sense Perception; Consciousness of Sensations; Pleasure and Pain; The Mental Image; The Memory; Associations of Ideas; Instinct; Appetency and Passion; The Motor Faculty.

Treatise on the Intellect. Attention; Abstraction; Generalization; Conception; Judgment; Reasoning; First Principles.

Treatise on the Will: Nature of the Will; Moral Liberty; Determinism.

106. Political Economy. Senior Year. One Term. One Hour a Week.

The new course of Elementary Law has for its purpose to teach the scope and field of jurisprudence. Law will be shown as a science and as a structure, and classification and explanation of the various departments will be made clear to the classes without treating law technically. The course will be supplemented by lectures on business law.

110. Engineering Writing. Freshman Year. Two Terms. One Hour a Week.

Preparation of Engineering Papers. Mechanical Details of the various forms of Technical Writing. Essentials of Business Letters: Letters of Application; Giving Instruction; of Inquiry or Invitation; Containing Quotation of Prices, Information on Contracts, Orders for Goods, etc. Scope and Essentials of a well written Report. Study of Specimens of Reports: Laboratory Experiment or Test, Inspection work, Periodic Reports; General Engineering Reports.

111. Public Speaking. Freshman Year. Two Terms. One Hour a Week.

The first term is devoted to the study of Oratory,—Deliberative; Forensic; Demonstrative,—the eulogy, the commencement address, the political speech, the platform oration. The theory of the oration is taught, and orations are required to be written.

The second term is devoted to Public Speaking. The course covers the following: Planning the Speech; The Conversational Mode; Action; Gesture; The Breath, Enunciation; Pronunciation; Pitch; Time; Quality; Force; Emphasis. Debating, Extempore Speaking, Principles of Argumentation are taught, and opportunities are given to become proficient in public speaking through practice.

112. Engineering Writing. Sophomore Year. Two Terms. One Hour a Week.

This course is a continuation of Course 110. Articles in Technical Journals are studied. Short Articles, Editorials, Summaries and Extracts, Book Reviews, Explanations of Apparatus and Laboratory Equipment, Detailed Descriptions of Installation of Plants, Solution of Engineering Problems, etc., are all required to be written in accordance with the principles and characteristics of Engineering Writing. Preparation of Manuscript and Correction of Proof are dwelt upon. Lengthy articles are required to be written and read before the St. Mary College Engineering Society.

113. Reading Course. Sophomore Year. Two Terms. One Hour a Week.

This Reading Course consists of an analytical study of twenty-seven articles by prominent writers,—articles which have a special appeal to engineering students. Seven articles are on Writing and Thinking; Two, on the Engineering Profession; Four, on the Aims of Engineering Education; Two, on Pure Science and Applied; Five, on Science and Literature; and eight, on Literature and Life.

120. French. Freshman Year. First Term. Three Hours a Week.

Elementary Grammar, Pronunciation, written exercises. Based on Syms' First Year French.

121. French. Second Term. Three Hours a Week.

Continuation of work done during the First Semester; reading of simple French short stories; study of simple memory selections; conversation.

Collateral Reading: Fables Choisies de La Fontaine. Les Plus Jolis Contes des Fées (Lazare).

122. French. Sophomore Year. First Term. Three Hours a Week.

Advanced Grammar; written exercises; conversation; continuation of reading and memory selections of the first year.

Based on Syms' Third Year in French.

Collateral Reading: Aldrich and Foster's French Reader. Fleurs de France. Contes de Daudet.

123. French. Second Term. Three Hours a Week.

Continuation of the work of the preceding semester.

Syms' Third Year in French is completed; a general review of French Grammar is made and exercises in French Composition are made weekly.

Collateral Reading: Choix de Contes Contemporains. Contes Choisis de J. Lamaitre. Contes Choisis de Rene Bazin. Plays selected from Labiche and Legouve.

125. Scientific German. Freshman Year. Two Terms. Two Hours a Week.

The course presupposes the ability to read easy narrative prose at sight. The object of the instruction is to prepare the student to make practical use of scientific treatises and periodicals for the purpose of investigation. Translations of scientific articles in German publications are made a feature of this course.

30. Spanish. Freshman Year. Three Hours a Week.

Pronunciation; theory and practice in Spanish Grammar; easy conversation; reading exercises; recitations; transla-

tion of short stories by Trueba, Fernan Caballero and J. de D. Peza; social correspondence.

131. Spanish. Sophomore Year. Three Hours a Week.

Continuation of the study of Spanish Grammar; prose composition; readings from de Vitis Spanish Reader; business correspondence.

132. Spanish. Junior Year.

Recitation and analysis of select classics,—Cervantes, Lope de Vega, Calderon, Moratin and Pereda; history of Spanish Literature.

150. Trigonometry. Freshman Year. First Term. Five Hours a Week.

Trigonometric Functions: Variations of Trigonometric Functions; Functions of the Sum and Difference of Arcs; Functions of Multiple Arcs; Inverse Functions; Solution of Triangles; Application of Trigonometry to the Solution of Quadratic Equations; Moivre's Theroem; Trigonometric Equations and Identities; Trigonometric Series; Miscellaneous Problems.

151. Higher Algebra. Freshman Year. First Term. Five Hours a Week.

Theory of Quadratic Equations; Theory of Exponents; Radicals; Theory of Numbers. Imaginary Quantities; Complex Numbers; Mathematical Induction; Permutations and Combinations; Determinants, Convergency, and Summation of Series; Binomial Theorem; Theory of Equations; Sturm's Theorem; Horner's Method of Solving Numerical Equations.

152.—Analytic Geometry. Freshman Year. Second Term Five Hours a Week.

Analytic Geometry of Two and Three Dimensions; Various Systems of Coordinates; Loci Problems; Study of the Line; the Circle; the Parabola; the Ellipse; the Hyperbola; Tangents; Normals; General Equation of the Second Degree; Higher Plane Curves; Surfaces of Revolution.

153. Differential Calculus. Sophomore Year. First Term Four Hours a Week.

Theory of Functions; Differentiation of Algebraic and Transcendental Forms; Implicit Functions; Expansion of Functions by Taylor's and Maclaurin's Theorem; Indeterminate Forms; Partial Differentiation; Direction of Curves; Tangents and Normals; Asymptotes; Multiple Points; Study of Curvature; Involutes and Evolutes; Envelopes; Maxima and Minima.

154. Integral Calculus. Sophomore Year. Second Term. Three Hours a Week.

Elementary Forms of Integration; Integration of Rational Fratcions; Integration by Parts; Trigonometric Integrals; Integration as a Summation; Application of Integration to Plane Curves; Volumes of Revolution; Double Integration; Moments of Inertia; Surface and Volume of any Solid.

155. Vector Analysis. Sophomore Year. First and Second Terms. One Hour a Week.

Elementary Operations of Vector Analysis. Composition and Decomposition of Vectors; Unit Vector; Vector Equations of the Straight Line and Plane; Centroids; Scaler and Vector Products; Line Integral; Surface Integral; Vector and Scaler Products of Three Vectors; Circle and Sphere; Differentiation of Scaler and Vector Products; Tangents and Normals; Curvature; Equations of Surfaces; Partial Differentiation; The Differential Operator (Del).

156. Differential Equations. Sophomore Year. Second Term. Two Hours a Week.

Formation of a Differential Equation; Equations of the First Order and of the First Degree; Equations of the First Order, but not of the First Degree; Singular Solutions; Linear Equations; Linear Equations with Variable Coefficients; Equations of the Second Order; Equations with more than Two Variables; Partial Differential Equations.

157. Theory of Mechanism. Junior Year. First Term. Four Hours a Week.

The geometry of machinery, showing the laws which govern the velocities of the moving parts and the correct forms for gear-teeth, cams, and link motions.

158. Thermodynamics. Junior Year. Second Term. Two Hours a Week.

The principle of the Conservation of Energy. The general laws of thermodynamics as applied to perfect gases, super-heated vapors, etc.; isothermal and adiabatic expansion. Carnot's Principle; Application of the principle especially in connection with the study of the steam engine.

60. Theoretical Mechanics. Junior Year. First and Second Terms. Five Hours a Week.

Kinematics: Linear, Plane, Spherical, Screw Motions; Velocity; Acceleration; Angular Acceleration.

Dynamics: Mass; Moments of Mass; Centroids; Momentum; Force; Energy.

Statics: Concurrent Forces; Parallel Forces; Theory of Couples; Principles of Virtual Work.

Kinetics: Impulses; Impact of Homogenous Spheres; Rectilinear, Free Curvilinear and Constrained Motions of a Particle; Kinetics of Rigid Bodies.

161. Applied Mechanics and Strength of Materials. Junior Year. First and Second Terms. Four Hours a Week.

The Physical Qualities of Materials of Construction; the Study of Stresses and Strains in the same. Safe Limit of Elasticity; Modulus of Elasticity; Experiments in Tension; Compression, Shearing, Torsion, Special Problems in Flexure of Beams.

Construction of Strength of Arches; Graphical Method for Arch-Ribs of Hinged Ends and of Fixed Ends; Stress Diagrams; Temperature Stresses; Braced Arches.

163. Surveying. Sophomore Year. First Term. Five Hours a Week.

Chain Surveying: Measurements of Distances; Use of Chain and Tape; Stadia Wires; Area of Contents of Ground.

Compass Surveying: Surveyor's Compass; Correction of Local Attraction; Field Notes; Variation of Needle in Declination; Area or Contents of Ground.

Transit Surveying: Study of the Transit; Measurements of Angles; Ranging of Lines; Farm Surveying; Laying out and Dividing of Land.

Leveling: Study of the Y Level; Use of Leveling Rod; Section Leveling; Cross-section Leveling; Computation of Earthwork.

164. Surveying. Sophomore Year. Second Term. Five Hours a Week.

Topographical Surveying: Definitions and Principles; Shading and Delineation; Topographical Signs; Mapping Contour Lines.

Railway Curves: Definition and Principles; Location of Curves; Laying off Ordinates; Reversed and Compound Curves.

165. Astronomy. Three Hours a Week.

The Earth; The Observatory; Refraction; The Sun; The Solar System-Parallax; Determination of the First Point of Aries; Precession; Nutation and Aberration; Navigation Fixed Stars; Spectrum Analysis; Masses of Heavenly Bodies

170. Descriptive Geometry. Freshman Year. Second Term Eight Hours a Week.

Elementary Principles; Notation; Problems Relating to the Point, Line and Plane; Principles and Problems Relating

to the Cylinder Cone and Double Curved Surface of Revolution; Intersection of Planes and Solids; Development of Solids; Intersection of Solids; Miscellaneous Problems.

171. Mechanical Drawing. Freshman Year. First Term. Eight Hours a Week.

Use of Drawing Instruments; Lettering; Conic Sections; Projection Drawing; Intersection of Planes and Solids; Intersection of Solids.

Drawing of the second term is taken in connection with the course of Descriptive Geometry outlined above.

172. Machine Drawing. Sophomore Year. First and Second Terms. Five Hours a Week.

This course is intended to give general information on simple machine details, such as bolts, screws, springs, keys, flanges, pipe fitting, valves, etc. Great attention is given to the reading of blueprints.

173. Machine Design. Junior Year. Second Term. Four Hours a Week.

This course is intimately connected with the several departments of engineering. Freehand sketching from machine parts and models are made, and the transferring of the sketching into Machine Drawings is required. It is the aim of the course to teach the student to make complete sets of working and assembly drawings for special machines, by applying all the principles acquired in the class room and the shops.

180. Physics. Sophomore Year. First and Second Terms. Three Hours a Week.

The aim of this course is to furnish all the knowledge of physics required in the technical courses of the Engineering Department. The subjects considered are general mechanics, molecular mechanics, wave motion, electricity, magnetism, sound and optics. These topics are discussed both mathematically and experimentally, while the historical and descriptive aspects are not overlooked. The physical principles and the applications thereof are very fully illustrated by an extensive series of lecture-table demonstrations and lantern projections.

181. Physical Laboratory. Sophomore Year. First and Second Terms. Six Hours a Week.

The work in the Physical Laboratory is from the beginning exclusively quantitative. It is so mapped out as to teach the student to make accurate measurements, to impart dexterity in the manipulation of instruments, and to give practice in properly noting, interpreting, and reducing ex-

perimental data. The student at the same time gets a clear understanding of the principles of Physics that he has learned in the lecture-room.

The following questions are treated in the laboratory: Uniformly accelerated motion; force proportional to rate of change of momentum; composition and resolution of forces; the principle of work; energy and efficiency; the laws of impact; elastic impace; coefficient of restitution; elasticity; Hook's law; Young's modulus; the coefficient of rigidity; moment of inertia; simple harmonic motion; determination of "g"; the law of centripetal force; Boyles' law; density of air; the measurement of temperature; law of Avogadro; densities of gases and vapors; the pressure-temperature curve of a saturated vapor; hygrometry; Archimedes' principle; capillarity; calorimetry; expansion.

Magnetic and electric fields of force; determination of the strengths of magnetic fields and magnetic poles; measurement of electric currents; measurement of potential difference; measurement of resistance; temperature coefficient of resistance; specific resistance; galvanometer constant of a moving-coil galvanometer; absolute measurement of capacity; comparison of capacities, determination of dielectric constants, and the ratio of the electro-static and electro-magnetic units; electromotive force and internal resistance; comparison of electromotive forces; electro-magnetic induction; constants of the earth's magnetic field; self-induction; magnetic induction in iron; electrolytic conduction; velocity of sound in air; musical properties of air chambers; longitudinal vibrations of rods; waves in strings; diffraction of sound and light waves; diffraction gfrating; refraction of light; total reflection; dispersion and spectra; polarized light; radio-activity.

185. Electrical Measurements and Measuring Instruments. Junior and Senior Years. First and Second Terms. Three Hours a Week.

The aim of this course is to set forth the theory of electrical measurements, the theory and mechanical construction of the instruments used, the degree of precision attainable, and the possible sources of error. The course likewise includes a systematic round of laboratory exercises in electricity and magnetism. The principal questions handled are the following: The determination of resistance by the various methods, insulation tests, comparisons of electromotive forces by the method of compensation, use of the potentiometer the various forms of voltameters, the calibration and correction of voltameters, ammeters, and wattmeters; storage battery tests, use of the electrometer, measuring and comparison of capacities and coefficients of self-induction, mutual induction laws of the electromagnet, measurement of induction, use of the bismuth spiral and

magnetic balance, the determination of the permeability of iron, hysteresis tests, etc.

Besides these electro-magnetic measurements, there is likewise a series of photometric measurements on incandescent and arc lamps with the Bunsen, Lummer-Brodhum, Martens Weber, Polarisation and Integrating photometers.

The students are required to hand in written reports of their work in the laboratory, accompanied with standard diagrams of connections, and graphs showing the results of their tests.

186. Dynamo Electric Machinery. Junior Year. First and Second Terms. Three Hours a Week.

This course embraces a study of Ohm's law and Kirchhoff's laws and various applications thereof; a study of electro-magnets and the magnetic properties of iron; the theory, construction, and characteristics of series shunt and compound generators, and the theory of commutation; parallel operations, speed control of motors, as also a discussion of the principles that underlie generator and motor testing.

187. Theory of Alternating Currents and Alternating Current Machinery. Senior Year. First and Second Terms. Three Hours a Week.

This course comprises a study of the mathematical theory of alternating current phenomena. In the development both vectorial and analytical methods are used. The general notions of harmonic functions are applied to alternating current circuits. A detailed study is made of circuits containing impedances and capacities in series and parallel; of the measurements of power in single phase and polyphase circuits.

In this course likewise a study is made of the construction, principles of operation and behavior of single and polyphase generators and motors, the transformer, induction motor, the synchronous motor and the rotary converter.

188. Electrical Laboratory. Junior Year. First and Second Terms. Five Hours a Week.

The work in the electrical laboratory includes the taking up of the characteristic curves of direct current machines to study their performance; the determination of the armature reaction; the making of efficiency regulation and heat tests; the determination of the torque of motors; a study of the various methods of operating generators and motors and their auxiliary control apparatus.

189. Electrical Laboratory. Senior Year. First and Second Terms. Five Hours a Week.

The work includes the study of circuits possessing inductance and capacity, the study of alternators, synchronous

motors, rotary converters, transformers, frequency changes, and meters; the use of the oscillograph and Braun's tube; the analytical presentation of the curves found experimentally. To this is added a study of high voltage phenomena and the determination of the dielectric strength of insulating materials.

190. Electric Distribution and Control. Senior Year. Second Term. Three Hours a Week.

This course embraces the design and calculation of circuits for the distribution of power by direct currents; a study of distribution-systems, regulating apparatus, and storage batteries. Alternating current transmission and distribution is next considered, particular attention being given to high tension transmission, including the installation and operation of high tension systems.

191. Electrical Design. Senior Year. First and Second Terms. Five Hours a Week.

In this course every student is required to complete an original design of each of the following types of electro magnetic machinery: a lifting electro-magnet, a magnetic clutch or system of electrical manipulation; a direct current generator or motor; an alternating current generator or synchronous motor; an induction motor; a transformer.

192. Excursions. Senior Year. Second Term.

Visits of inspection are made to various power and industrial plants in and about Dayton. Occasionally a more extended trip is made to some large industrial center. Formal reports, on such inspection trips, are required.

193. Seminar. Senior Year. First and Second Terms. One Hour a Week.

Several times a month the students and department instructors meet for the purpose of considering the more important articles appearing in the current electrical and technical journals. Abstracts of articles are prepared and read by the students. The reading is followed by a general discussion. At the meetings, likewise, occasional lectures are given by engineers in active practice upon subjects with which they are especially familiar

194. Electrical Machine Construction. Junior Year. Practice Term.

In this course the students are given practice in winding fields and armatures, assembling the parts of motors, generators and transformers, and making a running test.

195. Telephony and Telegraphy. Senior Year. First Term Two Hours a Week.

This course comprises a study of the theory and con

struction of telephone and telegraph apparatus and the applications thereof to the more common circuits used in local and long distance substations and central offices, and private branch exchanges. Methods of combining telephone and telegraph lines are likewise considered. A thorough study is made of Morse repeaters, duplex sets, simplex and composite sets, etc. Finally the student is given a thorough understanding of the construction and operation of the Automatic Switchboard system.

201. Qualitative Chemistry (Lecture Course). Freshman Year. First Term. Two Hours a Week.

A lecture course, fully illustrated, in which the metallic elements are studied from the standpoint of their analytical classification, going into details regarding their reactions with the typical reagents. Acid analysis is also taken up and the problems of qualitative analysis are considered in their various phases.

202. Qualitative Analysis (Laboratory Course). Freshman Year. First Term. Four Hours a Week.

The student is required to separate and to identify the various metallic and non-metallic elements, inorganic and common organic acids contained in materials of graded complexity.

203. Qualitative Analysis (Laboratory Course). Freshman Year. Second Term. Four Hours a Week.

The work under 202 is continued and completed, with special reference to full qualitative identification of complex minerals and alloys.

204. Quantitative Analysis. Sophomore Year. First Term. Seven Hours a Week.

This course provides a training in the accepted methods of quantitative analysis and follows courses 202 and 203. The work includes the gravimetric estimation of such metals as aluminum, copper, calcium, the halogens, sulphur and nitrogen, and the components of common alloys.

205. Quantitative Analysis. Sophomore Year. Second Term. Seven Hours a Week.

The work assigned is a continuation of the course 204 and introduces the student into the methods of calibration of apparatus, acidimetry, alkalimetry, oxidation, reduction and precipitation methods. Application of these are made as the student advances in the stages of his work.

206. Electrochemistry. Junior Year. Second Term. Four Weeks. Five Hours a Week.

A laboratory course designed to acquaint the student with

the quantitative determination of metals electrolytically, utilizing the stationary and rotating electrodes and other modifications of modern practice.

207. Technical Analysis. Junior Year. Seventeen Weeks. Six Hours a Week.

Special problems of current industrial practice are attacked. In this connection, the analysis of iron, steel, coal, water and gas are taken up.

208. Organic Chemistry. Junior Year. Thirty-four Weeks. Three Hours a Week.

Part I.—A course of lectures and recitations in which the general principles and theories of Organic Chemistry are treated with special reference to the Aliphatic Series. Attention is constantly drawn to such specific compounds as are of technical, medicinal, or theoretical importance.

Part II.—A lecture and recitation course, in which the Benzene Series is treated. As in Part I., the scientific development of the subject is always accompanied by demonstrations.

209. Organic Practice. Senior Year. Two Terms. Twelve Hours a Week.

The student is made familiar with the operations and apparatus involved in organic work, such as fractional distillation, extraction, crystallization, steam distillation, determination of melting and boiling points, and with various methods of preparation (etherification, saponification, nitration, sulphonation, diazotization, etc.) He prepares a prescribed number of typical organic products of synthetic and commercial interest. Accompanying this synthetic feature, the analytic methods (qualitative and quantitative) peculiar to organic chemistry are taken up and thoroughly mastered.

210. Chemical Technology. Junior Year. Second Term. Senior Year. First Term. Two Hours a Week.

This course consists of lectures and recitations upon the more important technical chemical processes. Much attention is given to the general operations common to many industries and to the details of various types of apparatus used for carrying on the processes of crushing, lixiviation, filteration, distillation, etc. Charts, models, and a large collection of samples are employed as aids.

211. Physical Chemistry. Senior Year. Two Hours a Week.

In this course the fundamental laws and theories of chemistry are studied from the standpoint of their historical development, together with the discussion of the principles and applications of thermo-chemistry. Chemical dynamics

and statics and the modern theories of solution are discussed, reference being continually made to original literature.

Laboratory work includes vapor density and molecular weight determinations according to the classical methods, etc.

212. **Seminar Students** of the Junior and Senior Years meet in informal conference with the instructors and discuss prepared papers and reviews of selected topics from current chemical literature.

213. **Special Lectures** by practicing industrial chemists and engineers will be arranged for to be given at stated periods.

214. **Inspection Visits** to local and neighboring establishments will help to familiarize the students with the actualities of chemical industry.

220. **Mineralogy. Sophomore Year. First Term. Two Hours a Week.**

A course of lectures and recitations is given on general and special mineralogy. The crystallographic, physical and chemical properties of the more important minerals are dwelt upon at length. Laboratory work, in which crystallographic models and natural crystals are put into the hands of the student, supplements the lectures. Other minerals are given for identification, thus bringing him into contact with a wide range of material. The College museum mineral collection is always open to students.

221. **Geology. Sophomore Year. Second Term. Two Hours a Week.**

The principles of dynamic, structural, physiographical and historical geology are presented in a series of lectures and recitations, supplemented by specimens furnished by the College Museum.

222. **Biology. Sophomore Year. First Term. Six Hours a Week.**

This course in Biology consists of one hour of lecture and five hours of laboratory work during seventeen weeks. The following list of materials used in laboratory study, with the apportionment of the number of hours required, gives a scope of the minimum amount of laboratory work required of every student:

Invertebrates: Animal Cells (4); Amoeba and White Blood Corpuscles of Frog (4); Paramoecium (2); Vorticella and Euglena (2); Bacteria and Yeast (4); Freshwater Hydra (5); Pennaria (Hydroid) (2); Grantia (simple sponge) (2); Starfish,—external characters and dissections (8); Earthworm,—dissection and study of microscopic preparations

(10); Parasitic Worms,—tapeworm, other intestinal worms, Trichina (5); Freshwater Mussel (8); Crayfish or Lobster (10); Grasshopper (10); Flies, Mosquitoes, etc. (10).

223. Biology. Sophomore Year. Second Term. Six Hours a Week.

This course in Biology consists of one hour of lecture and five hours of laboratory work during seventeen weeks. The following list of materials used in laboratory work, with the apportionment of the number of hours required, gives the scope of the minimum amount of laboratory work required of every student.

Vertebrates: Amphioxus,—external characters and microscopic study of transverse sections (5); Fish—dogfish or perch—external characters and dissection of internal organs and nervous system (10); Frog,—external characters, dissection of internal organs, nervous system, muscles of hind leg, skeleton (15); Turtle,—study of shell, dissection of organs (10) Pigeon,—external characters, feathers, dissection of internal organs, nervous system, superficial muscles leg and wing (15); Cat,—dissection of internal organs, nervous system, eye, superficial muscles (20); Development of frog, gross and microscopic study of eggs and larvae in successive stages of development (10).

230. Carpentry and Wood-Turning.

The object of the work is a thorough training in the adjustment, use, and sharpening of the ordinary wood-working tools. The exercises in carpentry include sawing, planing, chiseling, including chamfering, grooving, and plain moulding work; framing, including tenoning, splicing, mortising, and fitting braces; use of moulding planes; nailing, dove-tailing; gluing, and the proper use of sandpaper.

The exercises in Wood-Turning include systematic instruction in the use of the wood lathe in center and chuck turning and careful training in the use of turning tools, such as gouges, turning chisels, nosing tools, right and left side tools, parting tool, calipers and dividers.

231. Patternmaking.

Under this subject the student is taught the construction from working drawings of patterns for some machine involving the operations of laying up, gluing, turning, carving and making core boxes.

232. Forging.

This course includes instruction in the building and care of fires, heating, drawing, forming, bending and twisting, upsetting while bending, upsetting for square corners, punching, bolt-making, chamfering, welding, the making and use of

heading tools, chain making, the making and fitting of braces, the construction of hooks and ring bolts, riveting and the usc of threading tools.

233. Foundry Work.

The exercises include instruction in tempering the sand and making green moulds for small work. This is followed by exercises in core-making and an explanation of loam work. Machine, floor, and sweep moulding are briefly discussed. Students are likewise taught to attend the cupola furnace.

234. Machine Shop Practice.

The sudents are given instruction and practice in chipping chamfers, flat, concave and convex surfaces, keyways and "chipping to shoulder." This is followed by exercises in filing, beginning with the names and classification of files, a discussion of the "cut" tooth angles, and uses of each form, and methods of holding and operating. The instruction covers methods of holding and "laying out" work, cross filing, draw filing, free-hand gling, production of flat surfaces, surfaces at right angles, parallel surfaces, chamfering, filing to template, use of the hack-saw, fitting, including parallel, drive and slide fits, finishing and polishing.

Chipping and filing are followed by metal turning, including lathe work, drilling, planing and milling.

300. Stereotomy. Sophomore Year. Second Term. Three Hours a Week.

In this course the student is taught to apply the principles of Descriptive Geometry to the making of drawings for masonry structures such as piers, culverts, intersecting arches and walls, abutments, etc.

301. Stresses. Junior Year. First Term. Six Hours a Week.

Under this heading is included a study of the fundamental principles governing the distribution of stresses in the different members of framed structures subjected to known external loads; the investigation of roof and bridge trusses for the purpose of determining their probable load, and finally the determination of the maximum stress and distortion in the different members due to such loads.

302. Graphic Statics. Junior Year. Second Term. Five Hours a Week.

This course deals with the graphical method of determining stresses in structures and the accompanying deformation.

303. Railroad Engineering. Junior Year. First and Second Terms. Five Hours a Week.

This course includes class room recitations, field practice and drawing room work. The class room work covers a description of the various methods of railroad location, the mathematics of curves and the computation of earthwork. The field work consists of a complete railroad survey. In the drawing room the student prepares the necessary maps and profiles of the location survey, earthwork diagrams, mass diagrams, and switch layouts.

304. Railroad Engineering. Senior Year. First Term. One Hour a Week. Second Term, Three Hours a Week.

This course includes lecture and drawing room work in organization, construction and maintenance, methods of handling earth and rock, tunneling, track laying, design of yards, street railways, etc.

305. Electrical Engineering Laboratory. Junior Year. First and Second Terms. Three Hours a Week.

A course of laboratory exercises designed to familiarize the student with the elements of technical measurements and with the characteristics and operation of the ordinary types of electrical machinery.

306. Hydraulics. Senior Year. First Term. Two Hours a Week.

Deals with the fundamental principles of hydrostatics and hydrodynamics together with some of their applications to general hydraulics. Some of the topics discussed are: fluids and their properties; pressure, conditions of equilibrium; fluids in motion; discharge from orifices, flow over wires and through pipes; flow of water in open channels; energy and reaction of jets; pressure of water on curved vanes, and the essential principles of hydraulic motors.

307. Practical Astronomy and Geodesy. Junior Year. Second Term. Four Hours a Week.

In this course are treated the figure of the earth, methods of conducting a geodetic survey, including the measurement of base lines, triangulation, precise leveling, and methods of determining azimuth, latitude, longitude and time.

308. Prime Movers. Senior Year. First Term. Two Hours a Week. Second Term. Four Hours a Week.

Includes a descriptive and critical treatment of power-plant equipment and operation.

309. Masonry. Senior Year. First Term. Five Hours a Week.

This course includes a study of foundations in different

soils, description of various classes of masonry and their uses in arches, dams, footings, buildings, bridge abutments and piers, retaining walls and culverts. Considerable prominence is given to reinforced concrete. Much of the time is devoted to the designing and preparation of plans for various masonry structures.

310. Theory of Structures. Bridges and Similar Structures. Senior Year. First and Second Terms. Eight Hours. a Week.

Discusses the methods of making beams, columns, and ties from the structural materials; the combination of these elements to form buildings, bridges, viaducts and cranes. In the drawing room the student prepares strain sheets, general and detail plans, bills of materials and estimates. During the second term a study is made of standpipes, high office buildings, arches, cantilevers, continuous suspension and movable bridges, and the stresses to which they are subjected.

311. Hydraulic and Sanitary Engineering. Senior Year. First Term, One Hour a Week. Second Term, Four Hours a Week.

This course deals with the practical application of theoretical mechanics to water, sewerage, water power, and irrigation. Under the heading of sanitary engineering are studied the various problems involved in street cleaning, garbage collection and disposal, and other topics relating to public health.

312. Highway Engineering. Senior Year. Second Term. One Hour a Week.

This course covers the location, construction and maintenance of highways, together with the construction and maintenance of street pavements.

313. Mechanical Laboratory. Junior Year. First Term. Four Hours a Week.

The mechanical laboratory period is devoted to the study of elastic properties of materials of construction. The fundamental relations of stress and deformation are examined, with a view to the analysis of stresses in beams, columns, spheres, cylinders, flat plates, hooks, links, springs, etc.

314. Mechanical Laboratory. Junior Year. Second Term. Four Hours a Week.

Strength of Materials. Standard tests are made on materials of construction, such as iron, steel, lime cement, concrete, reenforced concrete, brick, stone, timber, rope, wire and belting.

316. Heat Engineering. Junior Year. Second Term. Prerequisite, 158.

The fundamental principles of thermodynamics as applied to Heat Transmission in Boiler Plates, Condensers, Evaporators, Feed-Water Heaters, Radiators. Heat Engines and their Efficiencies. The Steam Engine.

317. Heat Engineering. Senior Year. First and Second Terms. Six Hours a Week.

Continuation of 316. Fundamental principles of thermodynamics as applied to Air Compressors, Multiple Expansion Engines, Steam Nozzles, Injectors, Steam Turbines, Condensers, Evaporators, Internal Combustion Engines, Refrigeration.

318. Power Plant Testing. Junior Year. First Term. Five Hours a Week.

The purpose of this course is to familiarize the student with the various apparatus employed in the power-house to conduct tests for capacity and efficiency. The character, principle and function of each instrument is studied critically with a view to its adaptability for the test for which it is intended.

319. Power Plant Testing. Junior Year. Second Term. Five Hours a Week.

Prerequisite, 318. Actual tests in the power plant of the College, comprising tests on single units, and on the whole plant, determination of capacity and efficiency of pumps, boilers, steam engines, generators, etc.

330. Steam Engineering. Junior Year. First Term. Three Hours a Week.

The subject begins with the study of the Zeuner and Bilgram diagrams, with the application of these diagrams to simple slide valves, and gradually embraces the analysis and synthesis of flat, piston, unbalanced, single-ported, and multi-ported valves, with fixed, shifting and swinging eccentrics; the study of theoretical indicator cards for simple and compound engines, valve ellipse, valve and piston velocity diagrams, link motions, radial gears, Corliss and other trip gears. Moreover, the work covers the analysis of steam distribution in various types of engines, embracing a thorough discussion of the force involved in the transmission of power from piston to shaft, with a view of determining the weight of fly-wheel for a desired steadiness of motion; fly-wheel design for various purposes; the theory and practice in the design and operation of Corliss, throttling and shaft governors, together with a brief discussion of other methods of governing.

331. Engine and Boiler Design. Junior Year. First Term. Six Hours a Week.

The work includes the complete analysis and design in detail of a high speed center crank engine with a swinging eccentric, a similar design of the valve gear and cylinder for a single eccentric Corliss engine, and the details of the Stephenson link motion as applied to a passenger locomotive; the design of a Corliss engine; the graphical analysis of the forces transmitted from piston to crank shaft; the design of a shaft governor; the design of a return tubular boiler with setting.

332. Metallurgy of Iron. Junior Year. Second Term. Two Hours a Week.

The theory and practice of iron and steel making; discussing ores, fuels, slags, chemical reactions, and the technical and practical conditions involved in the manufacture of pig iron, wrought iron, malleable iron and various classes of steel.

333. Steam Power Plants. Junior Year. Second Term. Four Hours a Week.

A critical study of steam boilers and furnaces, boiler room equipment, steam engines, steam turbines and condensers. Choice of proper power plant to meet required conditions.

334. Gas Power Plants. Senior Year. First Term. Six Hours a Week.

A critical study of gas producers, gas engines, oil engines and accessory equipment.

335. Dynamics of Machines. Senior Year. First Term. Two Hours a Week.

A study of the stresses set up by impact and inertia, as also of vibration and critical speeds.

336. Power Machinery. Senior Year. First Term. Eleven Hours a Week. Second Term, Eleven Hours a Week.

The methods of designing the parts of engines, boilers, turbines and pumps with regard to strength, rigidity, efficiency, wear and cheapness of production and operation. During the second term the student is taught the design and analysis of complete machines and appliances such as engines, ammonia compressors, boilers, pumps, turbines, etc.

337. Hydraulic Motors. Senior Year. Second Term. Two Hours a Week.

A study of impulse wheels and reaction turbines with reference to their proper construction, regulation and testing, and to the various sources of losses in their operation.

338. Rapid Production Machinery. .Senior Year. Second Term. One Hour a Week.

A study of lathes, automatic screw machines, milling machines, planes, drills and precision grinders, as also a study of the most economical speeds at which to run tools under varying conditions of material, cut and feed.

339. Pumps and Compressors. Senior Year. Second Term. Two Hours a Week.

In this course are treated the theory, design and construction of reciprocating and centrifugal pumps, blowers and compressors.

340. Heating and Ventilating. Senior Year. Second Term. One Hour a Week.

A study of the various methods of heating and ventilating with due regard to their hygienic value. Investigation of the heat losses in buildings, as also the methods of utilizing the waste heat from power plants for heating purposes.

341. Principles of Industrial Engineering. Junior Year. Second Term. One Hour a Week.

The course comprises a series of lectures on the following topics, with a view of preparing the student to enter the subject-matter more extensively in the senior year. The Origin of the Industrial System; Reflex Influences of the Industrial System; Principles of Industrial Organization; Forms of Industrial Ownership; the Nature of Expense; Distribution of Expense; the Primary Wage-System; Philosophies of Management.

342. Cost Keeping and Scientific Management. Senior Year. Eight Weeks. Four Hours a Week.

A study is made of the importance of keeping accurate costs; the elements of cost; the distribution of indirect costs. The problem of the distribution of expense; methods of paying for labor.

Principles of Scientific Management. Study in detail of a certain number of shops where these principles apply.

343. Works Management. Senior Year. First Term. Nine Weeks. Four Hours a Week.

This study considers the various elements of cost, labor, material, burden, depreciation, organization and accounting in their complex relations to one another to produce the most efficient factory.

344. Factory Organization and Administration. Senior Year. Second Term. Twelve Weeks. Four Hours a Week.

The purpose of this course is to study in detail the planning and operation of a modern, up-to-date factory.

MILITARY TRAINING

Military Training is given under the direction of an officer of the United States Army. It is compulsory for all collegiate students at St. Mary College. One faculty member and eight collegiate students, who are certified by the United States government as instructors in military training, will take active part in the training of the College Battalion, under the direction of the United States Army Officer. The instructors were specially prepared for their work at Fort Sheridan, Ills., where they were given sixty days of intensive training in military tactics, at the close of which they were given certificates as instructors in military training.

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St. Mary College

DAYTON, OHIO

Collegiate Department

College of Arts, Letters, Science
College of Engineering

Pre-Medical Department
High School Department
Business Department
Elementary Department

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